Optronix®

Product Catalogue
2025-26

CATV PRODUCTS | OPTICAL FUSION SPLICERS EDFA | OPTICAL FIBER CABLE | PON PRODUCTS | TESTING & MEASURING INSTRUMENTS

Manufacturing

Optical Fiber Cable   *&*   **Electronics Manufacturing Services**

An approach towards
INNOVATION

Business Partners

SPEC CATV

SUMITOMO ELECTRIC

DEVISER® USA

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ABOUT CANDID OPTRONIX

Candid Optronix Pvt. Ltd. traces its origins to Spec Technology, established in 1997, which initially focused on CATV, Fiber Optic Cable products. Spec Technology Corporation remained the top performing company for over two decades.With the advancements in technology and new venture possibilities, Candid Optronix was founded in 2015 to address the evolving needs of the telecommunications sector. The company now offers a range of products, including Sumitomo fusion splicing machines, Deviser test and measurement equipment, and manufactures optical fiber cables, ONT/OLT devices, and EDFA units in India. .

Located in Kotdwar, Uttarakhand, Candid Optronix's OEM manufacturing facility spans over 100,000 sq. ft. of covered area and 225,000 sq. ft. total area. This state-of-the-art facility is equipped with advanced German machinery for optical fiber cable production and a fully automated Surface Mount Technology (SMT) line for electronic manufacturing. The SMT line enables the company to produce high-quality ONT/OLT devices and other telecom electronics, ensuring precision and reliability in their products.

With a strong presence across India, including offices in Delhi, Noida, Ahmedabad, Bangalore, Chennai, Guwahati,Hyderabad, Kochi, Mumbai and Patna, Candid Optronix is well-positioned to serve the telecommunications industry. The company's focus on research and development, coupled with its comprehensive product offerings and service infrastructure, underscores its dedication to providing reliable and innovative solutions in the fiber optic domain

PILLARS

Our company is built upon five foundational pillars that define our operations and commitment to excellence:

- **Sumitomo Fusion Splicers:** Sole authorized distributors of cutting-edge fusion splicers made by Sumitomo Electric Japan, ensuring seamless optical fiber connections for telecom and data transmission.

- **Deviser Testing Equipment:** Sole authorized distributors of Deviser test and measuring equipment. Offering OTDRs, OPMs, etc, and advanced tools for precise network diagnostics and maintenance.

- **Spec Technology Products:** 28 years of manufacturing best-of-the-industry CATV instruments and optical transmitting equipment (like EDFA, optical transmitters, optical receivers, WDM etc), meeting the evolving needs of broadcasting and cable industries.

- **Optronix Optical Fiber Cables:** Manufacturing at large scale of durable, high-performance cables for telecom, networking, and data center applications throughout India.

- **Optronix Electronics:** State of the art SMT lines for manufacturing of electronics as EMS work and producing ONTs, OLTs, and other products for robust, high-speed fiber-optic communication systems.

ABOUT SUMITOMO ELECTRIC

Legacy of the Sumitomo Group

Over 400 Years of Heritage: The Sumitomo Group traces its origins back to the 17th century, beginning as a copper refining and trading business in Japan. This rich history has laid a strong foundation for the group's commitment to innovation and excellence across various industries.
Global Presence: Today, Sumitomo Electric Industries operates in over 40 countries, bringing cutting-edge technologies to sectors like automotive, electronics, and telecommunications

Optical Fusion Splicers by Sumitomo Electric Japan

- **Advanced Splicer Models:**

  - **Z2C:** A robust core alignment fusion splicer, delivering fast splice times (~6 seconds) and enhanced environmental resistance for reliable field performance.
  - **82C:** An advanced core alignment splicer offering ultra-fast splicing (~5 seconds), automatic fiber identification, suitable for diverse fiber optic applications.

- **Innovative Technologies:**

  - **NanoTune:** An Al-driven feature that optimizes splice loss and enhances splicing efficiency.
  - **SumiCloud:** Enables remote monitoring, firmware updates, and asset management via smartphone connectivity, enhancing field operation.

- **Service and Support:**

  - **SEI Trading India Pvt. Ltd.:** Provides sales and service support for optical fiber splicers across India.
  - **Candid Optronix:** Sole authorized distributor with service centers in major cities including Ahmedabad, Bangalore, Guwahati, Hyderabad, Kochi, Patna, Delhi, Noida, Mumbai and Chennai ensuring prompt assistance and maintenance services.

ACTIVE CLAD ALIGNMENT FUSION SPLICER

ABOUT THE PRODUCT

Our Clad Fusion Splicer is purpose-built for quick, precise, and cost-efficient fiber splicing by aligning the cladding layer rather than the core. Ideal for FTTH installations, field maintenance teams, and low-precision applications, it removes the complexity of core alignment while delivering robust splice strength and minimal signal loss.

Features
Compact , Smart & Tough
Universal Clamp fiber Holder
4.3 inch Capacitive Touch Screen
Minimum Splicing Loss
Electrode Life: 6,000 Arc Discharges
Long Life Battery for Approx 250 Splice & Heat Cycle
Handheld Fusion Splicer
Improved Enviromental Durability includes Shock , Water & Dust Resistance and Wind Proof Features
Suitable for Drop and Indoor Cable Splicer
Built in Help Videos Play on Splicer Display
Software updates and Remote Diagnosis Services Via Internet

NanoTune™

SumiCloud™

Hot Core Analyzing

Compact & Light 1.2kg

Proven Field toughness

S1V ULTRA

S1V

Items		S1V Ultra	S1V
Optical fiber requirements	Fiber count/ Profile types	Single /SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)	
	Cleave length	5 to16mm for single fiber	
Standard performance	Splice loss (typical)[*1]	SMF : 0.03dB, MMF : 0.01dB, DSF : 0.05dB, NZDSF : 0.05dB	
	Splice time(typical)	6sec (SM G652 Quick Mode)	
	Heating time(typical)	12sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode)	17sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode)
	Splice & Heat cycles per battery full charge[*2]	Approx. 250 (BU-17)	
	Fiber view & magnification	2 CMOS cameras observation, 180X (zoom 370X) for X and Y axis view.	2 CMOS cameras observation, 140X (zoom 370X) for X and Y axis view.
Programs	Splice programs	Max. 300, 16 are pre-optimised, 284 editable by user	
	Heating programs	Max. 100, 27 are pre-optimised, 73 editable by user	Max. 100, 23 are pre-optimised, 77 editable by user
Functions	Wireless LAN connectivity (Option)[*3]	Provided	N/A
	Onboard user training video	Provided	
	Core Loss Estimation	Provided, HCA : Hot Core Analyzing	N/A
Size/ Weight	Size	126(W) x 154(D) x 83(H) mm (without protrusion)	
Operating condition		Altitude : 0 ~ 5,000m, Temperature :-10 ~ +50°C, Humidity : 0 ~ 95%RH (non-condensing), Wind velocity : up to 15m/sec	

AC adapter ADC-15

Battery pack BU-17

Carrying case CC-18

Working tray WT-18

Table top cleaver SFCS

OTHER ACCESSORIES

SUMITOMO CLAD SPLICER

CORE ALIGNMENT FUSION SPLICER

ABOUT THE PRODUCT

Our Core Fusion Splicer offers high-precision core alignment using advanced imaging for ultra-low splice loss—typically under 0.02 dB. Ideal for backbone networks and data centers, it features AI-powered splicing, fast operation (6–8 sec splice time), and a rugged, portable design. Compatible with multiple fiber types, it ensures consistent performance even in challenging environments.

Features
AI-powered core alignment technology for precise, low-loss splicing.
Quick heating cycle for protective sleeves.
Automatic arc calibration for stable performance.
Internal Data Storage : 200/10000 Splice Data
5 inch LCD Monitor, Touch Optimised User Interface and High Resolution Display
Electrode Life : 6,000 Arc Discharges
Real-time splice loss estimation for quality assurance.
Dustproof and shock-resistant design for field durability.
Long battery life supporting multiple splice cycles per charge.
Compact and lightweight build for portability.
Multi-language interface for global usability.
Consistent performance in varied environmental conditions.

NanoTune™

SumiCloud™

320 Long Life Batteries

Dual Ovens

310 Long Life Batteries

High Environmental Resistance

Proven Field Toughness

82C+

W1C

Z2C

Items		82C+	W1C	Z2C
Optical fiber requirements	Fiber count/ Profile types	Single /SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657), CSF(G.654), EDF	Single /SMF(G.652), MMF(G.651), DSF(G.653) ,NZDSF(G.655), BIF(G.657), CSF(G.654)	Single /SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)
	Cleave length	5 ~ 16mm with coating clamp		
Standard performance	Splice loss (typical)[*1]	SMF : 0.01dB, MMF : 0.01dB, DSF : 0.03dB, NZDSF : 0.03dB	SMF : 0.02dB, MMF : 0.01dB, DSF : 0.04dB, NZDSF : 0.04dB, BIF : 0.02dB	
	Splice time(typical)	5sec (SM G652 Quick Mode), 7sec (Auto Mode), 7sec(SM G652 Std. Mode)	6sec (SM G652 Quick Mode), 8sec(Auto Mode)	
	Heating time(typical)	8sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode)	8sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick)	15sec (FPS-61-2.6 sleeve, S60mm 0.25)
	Splice & Heat cycles per battery full charge[*2]	Approx. 320 (BU-16)	Approx. 310 (BU-16)	
	Fiber view & magnification	2 CMOS cameras observation, 380X (zoom : 760X) for X or Y single axis view, 270X for both X & Y dual axis view	2 CMOS cameras observation, 350X (zoom : 700X) for X or Y single axis view, Max. 350 for both X & Y dual axis view	
Programs	Splice programs	Max. 300, 74 are pre-optimised, 266 editable by user	Max. 300, 54 are pre-optimised, 246 editable by user	Max. 300, 40 are pre-optimised, 260 editable by user
	Heating programs	Max. 100, 27 are pre-optimised, 73 editable by user		Max. 100, 23 are pre-optimised, 77 editable by user
Functions	Wireless LAN connectivity (Option)[*3]	Provided		N/A
	Onboard user training video	Provided		
	Dual automatic independent ovens	Provided, 200μm ,900μm tight & Loose buffer fiber		N/A
Size/ Weight	Size	128(W) x 154(D) x 130(H) mm (without anti-shock rubber)		
Operating condition		Altitude : 0 ~ 6,000m, Temperature :-10 ~ +50°C, Humidity : 0 ~ 95% (non-condensing), Wind velocity : up to 15m/sec		

OTHER ACCESSORIES

Carrying case with Worktable CC-82

Handy Cleaver FC-8R series

Table-top cleaver FC-6+ series

Jacket remover JR-M03

Compatible with Lynx-CustomFit™

Electrode ER-10

RIBBON ALIGNMENT FUSION SPLICER

ABOUT THE PRODUCT

The 82M12 is acclaimed as the best ribbon splicer in the world. It efficiently splices up to 12 fibers simultaneously, featuring dual independent heat ovens and automatic fiber count detection, streamlining operations in high density network environments.Its compact and portable design makes it the go-to tool for efficient and reliable ribbon splicing in backbone, FTTx, and data center applications.

82M12

SumiCloud™

Dual Ovens

Realises Splice loss 0.05dB
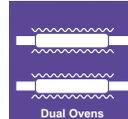
82M12 Features
Reduce Your Work Time
Internal Data Storage : 200/10000 Splice Data
External; SD/SDHC (~32GB), 50,200 Images 20,000 Data
Remote Interactive Maintenance via Internet
Dual Independent Heater, Splice Loss 0.05dB
Long Life Battery, 310 Splices With the Genuine Electrode, ER-10

Items		Type-82M12
Optical Fibre Requirements	Profile Types	Single/ SMF(G652), MMF(G651), DSF(G653), NZDSF(G655), BIF(G657)
	Fibre Count	1,2,4, 5, 6, 8, 10, 12
	Cleave length	10mm
Standard performance	Splice loss (typical)*[1]	SMF 0.05dB, MMF 0.02dB, DSF 0.08dB, NZDSF 0.08dB
	Splice time (typical)	11sec (SM 12c Quick Mode), 14sec (SM 12c Std. Mode)
	Heating time (typical)	25sec (FPS-6 sleeves, 40mm 1-12c Quick Mode)
	Splice & heat cycles per battery full charge*[2]	Approx 220
	Fibre view and magnification	2 CMOS cameras observation, 23X (zoom 46X)
Programs	Splice programs	Max 300
	Heating programs	Max100
Functions	Onboard user training video	Provided
	Wireless LAN connectivity (Option)*[3]	Provided
Size/ Weight	Size	128(W) x 154 (D) x 130 (H) mm (without anti-shock rubber)
Operating condition		Altitude : 0-3,660m,Temperature :-10-50°C, Humidity : 0-95% (Non-condensing), Wind velocity : up to 15m/sec

OTHER ACCESSORIES

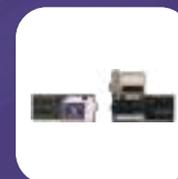Carrying case with Worktable CC-82

Handy Cleaver FC-8R series

Table-top cleaver FC-6/FC-6R series

Hot Jacket remover JR-6+

Pitch changing Holder PCH-12A

Available for Lynx-Custom Fit™

SUMITOMO ACCESSORIES

FIBER CLEAVER

FC- 6R Series

Specifications					
Part number		FC-6RM	FC-6RM-C	FC-6RS	FC-6RS-C
Applicable Fiber	Material	Silica Glass			
	Cladding diameter	φ 125 um			
	Fiber count	Single to 12		Single	
Cleave Length		10mm		5~20mm (φ 0.25)/10~20mm (φ 0.9)	
Cleave angle (Typ.)		0.5 degrees with single fiber			
Off-cut collector		Option	Pre-fitted (CU-FC6R)	Option	Pre-fitted (CU-FC6R)
Single fiber adapter		Fiber holder (Option)		Pre-fitted (AP-FC6M)	
Automatic blade rotation		Provided			
Dimensions (mm)		63(W) x 77(D) x 63(H)	100(W)x81(D)x63(H)	63(W)77(D)x63(H)	100(W)x81(D)x63(H)
Weight		Approx. 380g	Approx.420g	Approx. 380g	Approx.420g
Field replaceable blade		Yes, use FCP-20BL (7R)			
Blade Life*[1]		60,000 fibers (2,500 fibers x 24 positions)			

FC- 8R & S-70 Series

Specifications					
Part number		FC-8RF		FC-8R-FC	S-70
Applicable Fiber	Material	Silica Glass			
	Cladding diameter	φ 125 um			
	Fiber count	Single to 12	Single	Single to 12	Single
Cleave Length		10mm	6~20mm(φ 0.25) 10~20mm (φ 0.9)	10mm	6~20mm(φ 0.25) 10~20mm (φ 0.9)
Fiber placing		Fiber holder	Single fiber adapter (AP-FC7)	Fiber holder / Single fiber adapter (AP-FC7)	Single fiber adapter (AP-FC7)(A)
Cleaver angle (Typ.)		0.5 degrees with single fiber			
Off-cut collector/ Fiber bin		Pre-fitted/ TR-FC8R			
Automatic blade rotation		Provided (Switchable to Fixed)			
Cleave Operation counter		N/A		Provided DC power supply : Coin type Lithium battery Cr1220	Provided
Lid Opening angle		Switchable (Wide/ Narrow)			
Dimensions and Weight		58(W)x98(D)x47(H)mm, Approx. 260g			58(W)x98(D)x49(H)mm, Approx. 260g
Field replaceable blade		Yes, use FCP-20BL(7R)			
Operating Condition		10~50 degree C and 0~95% RH (non-condensing)			
Storage Condition		40~80 degree C and 0~95% RH (non-condensing)			
Blade Life*[1]		60,000 fibers (2,500 fibers x 24 positions)			

FIBER HOLDERS

- Fiber holders are designed to work with Sumitomo fusion splicers and help load optical fiber or cable correctly in the splicers.
- The fiber holders are supplied in pair for the left and right. Select holders according to the fiber count and fiber coating diameter being spliced.

Fiber Holder FHS-09   Fiber Holder FHS-025

Part No.	FHS-025	FHS-09	FHS-025/LB5	FHD-I	FHC-3	FHM-2	FHM-4	FHM-5	FHM-6	FHM-8	FHM-10	FHM-12
Fiber	Single 250μm	Single 900μm	Single 900μm Loose Buffered fiber	Single 250μm Drop/ Indoor Cable	3mm Cable	2-fiber ribbon	4-fiber ribbon	5-fiber ribbon	6-fiber ribbon	8-fiber ribbon	10-fiber ribbon	12-fiber ribbon
Cleave length	10mm											

HOT JACKET REMOVER JR-6

- Lightweight, compact and easy to use
- Adjustable temperatureWater protected to IPX1 and shock-resistant
- Built-in battery charger
- Easy maintenance and field replaceable blade

ABOUT DEVISER INSTRUMENTS

Deviser Instruments is a globally recognized provider of advanced test and measurement equipment, serving the telecommunications industry for over three decades. Renowned for their commitment to quality and innovation, Deviser offers comprehensive solutions tailored to the needs of communication service providers, including those in India.

COMPANY HERITAGE AND GLOBAL PRESENCE

With more than 30 years of experience, Deviser Instruments has established itself as a trusted partner for major communication service providers worldwide. Their product portfolio encompasses a wide range of testing solutions for cable, wireless, fiber optics, and telecommunications networks. Deviser's focus on manufacturing quality products ensures that customers are empowered to perform installations, verifications, and maintenance tasks effciently and accurately

PRODUCT OFFERINGS IN INDIA

- In India, Deviser Instruments' products are distributed through the sole authorised distributor - Optronix, catering to the growing demand for reliable and effcient fiber optic testing solutions. Their offerings include:

- Optical Time Domain Reflectometers (OTDRs): Devices like the AE3100 series are designed for verifying the construction, installation, and maintenance of access networks, data centers, and FTTx networks.

- Optical Power Meters: The AE210 series supports up to 9 wavelengths, making it suitable for applications in FTTx, CATV, PON, and long-haul networks.

- Optical Laser Sources: The LS310 series provides high-precision, semiconductor-grade lasers for stable and accurate measurements across various fiber optic applications.

- Optical Multimeters: The EP710 series combines a light source and an optical power meter in a single handheld unit, ideal for CATV, FTTx, and PON networks.

- PON Power Meters: Devices like the EP310 series enable users to quickly validate PON network installations by measuring multiple wavelengths simultaneously.

MINI OTDR

ABOUT THE PRODUCT

The AE1001 from Deviser Instruments is a sleek, easy to use OTDR weighing less than 1 kg that tests the common 1310 & 1550nm wavelengths in 5s flat. Low power consumption and a solid 2500mAh battery allow the AE1001 to run automated, manual, or real-time tests continuously for over 4 hours, and are supplemented with the always-handy OPM and VFL.

Optical Parameters		
Test Wavelength	**1310nm ± 20nm**	**1550nm ± 20nm**
Dynamic range*	26 dB	24 dB
Event deadzone**	≤ 3m	
Attenuation deadzone**	≤ 10m	
Measurement range	150m, 300m, 500m, 1km, 2km, 5km, 10km, 20km, 40km, 80km	
Pulse width	3ns, 5ns, 10 ns, 30 ns, 50 ns, 100 ns, 200 ns, 500 ns, 1μs, 2μs, 5μs, 10μs, 20μs	
Sampling resolution	Auto / high-resolution modes	
Sampling points	Up to 12,800	
Group refractive index***	1.000000 ~ 2.000000	
Distance uncertainty	± (0.75 + 0.005% × fiber length + sample resolution)	

Other Test Modes		
Optical Power Meter	Calibrated λ	1310, 1550nm
	Operating λ	850, 980, 1300, 1310, 1490, 1550, 1610, 1625, 1650nm
	Power range	Select from [-70 ~ +10 dBm] or [-50 ~ +26 dBm]
	Power accuracy	±0.23 dB
Visual Fault Locator (VFL)	Wavelength	650 ± 10nm
	Power	1mW
	Compliance	Laser Safety Class II
Optical port type		PC (default); APC (optional)
Optical adapter type		FC (default); SC, ST, LC, SC/APC (optional)

SINGLE MODE OTDR

ABOUT THE PRODUCT

From Deviser Instruments The AE3100 is our latest 4th-generation OTDR — built for top-notch fiber testing. It supports three wavelengths with a powerful 43 dB dynamic range. The touchscreen makes it super easy to use, and it's perfect for building, maintaining, and checking FTTx or access networks. Plus, we've got multiple models to match exactly what you need.

AE3100 Model	A	B	C	D	E	F
General						
Wavelength Range	1310/1550nm (±20)					
Dynamic Range	32/30dB	34/32dB	36/34dB	40/38dB	43/40dB	45/43dB
Attenuation Deadzone	≤ 5.0m		≤ 4.0m		≤ 3.0m	
Measurement Range	100m, 400m, 1.5km, 3km, 6km, 12km, 25km, 50km, 100km, 200km, 400km					
Pulse Width	3ns, 5ns, 10 ns, 30 ns, 50 ns, 100 ns, 200 ns, 500 ns, 1μs, 2μs, 5μs, 10μs, 20μs					
Sampling Resolution	10cm ~ 12.8m		5cm ~ 12.8m			
Sampling Points	Up to 256,000					
Distance Accuracy (m)	± (0.75m + 0.005% x Distance + Sampling Res.)		± (0.75m + 0.001% x Distance + Sampling Resolution)			
Wavelength Accuracy	± 20nm					
Event Deadzone	≤ 1.5m	≤ 1.0m	≤ 0.8m			

LIVE OTDR

ABOUT THE PRODUCT

Our OTDR Live Series is an advanced fiber testing solution that monitors live network performance without interrupting active services. Designed for telecom providers, data centers, and enterprise systems, it detects real-time issues like bending, splice loss, or signal degradation—enabling proactive maintenance, reducing downtime, and ensuring uninterrupted, high-performance connectivity.

AE3100 CP/ DP/ EP SERIES OTDR

General	
Wavelength Accuracy	± 20nm
Event Dead Zone	≤ 0.8m
Attenuation Dead Zone	≤ 3m
Distance Range	100m, 400m, 1.5km, 3km, 6km, 12km, 25km, 50km, 100km, 200km, 400km
Sampling Resolution	5cm ~ 12.8m
Sampling Points	256,000 max
Distance Accuracy (m)	± (0.75m + 0.001% x Distance + Sampling Resolution)
Group Refractive Index	1.30000 ~ 1.70000
Linearity	0.03 dB/dB
Loss Threshold	0.001dB
Loss Resolution	0.001 dB
Refresh Rate	4 fields/second
Reflectance Accuracy	± 2dB
Pulse Width	3ns, 5ns, 10 ns, 30 ns, 50 ns, 100 ns, 200 ns, 500 ns, 1µs, 2µs, 5µs, 10µs, 20µs
Measurement Time Range	5s ~ 5min, real time
Data Storage	>80,000 OTDR traces, exportable to USB or Computer

Model	Wavelengths (nm)	Dynamic Range (dB)
CP-1	1310 / 1550 / 1625	37 / 35 / 35
CP-2	1310 / 1550 / 1650	
CP-3	1310 / 1550 / 1490	
DP-1	1310 / 1550 / 1625	40 / 38 / 38
DP-2	1310 / 1550 / 1650	
DP-3	1310 / 1550 / 1490	
EP-1	1310 / 1550 / 1625	43 / 41 / 41
EP-2	1310 / 1550 / 1650	
EP-3	1310 / 1550 / 1490	
G	1310 / 1490 / 1550 / select either 1625 or 1650	37 / 35 / 35 / 35

MULTI MODE OTDR

ABOUT THE PRODUCT

The Deviser AE3100 series (models M, CM, and DM) are high-precision handheld OTDRs engineered for accurate testing and troubleshooting of optical fiber networks. Renowned for their reliability, advanced features, and field-ready design, they're ideal for FTTx, backbone, and metro network applications.

AE3100 M/ CM/ DM/ EM SERIES OTDR

SKU No.	Wavelengths	Dynamic Range
AE3100M	850, 1300nm	25 / 27dB
AE3100CM	850, 1300, 1310, 1550nm	25 / 27 / 37 / 35dB
AE3100DM	850, 1300, 1310, 1550nm	25 / 27 / 40 / 38dB
AE3100EM	850, 1300, 1310, 1550nm	25 / 27 / 43 / 41dB
FC/PC	FC Connector and PC Physical Type	
SC/APC	SC Connector and APC Physical Type	

AE3100 Model		M	CM	DM	EM
General					
Wavelength Accuracy		± 20nm			
Event Dead Zone	Single-mode	-	≤0.8m		
	Multi-mode	≤0.8m			
Attenuation Dead Zone	Single-mode	-	≤4m		
	Multi-mode	≤5m			
Distance Range	Single-mode	100m, 400m, 1.5km, 3km, 6km, 12km, 25km, 50km, 100km, 200km, 400km			
	Multi-mode	100m, 400m, 1.5km, 3km, 6km, 12km, 25km, 50km			
Pulse Width	Single-mode	3ns, 5ns, 10ns, 30ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs, 5µs, 10µs, 20µs			
	Multi-mode	5ns, 10ns, 30ns, 50ns, 100ns, 200ns, 500ns, 1µs			

DEVISER OTDR

OPTICAL POWER METER

ABOUT THE PRODUCT

The AE210 Series of optical power meters is perfect for qualifying applications using fiber optics for the physical layer, including FTTx, CATV, PON, and long haul networks. These user-friendly instruments are capable of supporting up to 9 wavelengths, covering all ranges required for the applications listed above.

AE200 SERIES

Model	AE210	AE230	AE270
Detector	InGaAs Φ 300μm	InGaAs Φ 2000μm	InGaAs Φ 300μm
Accuracy	± 0.17dB (± 3%)		
Dynamic Range	-50 ~ +26dBm		-70 ~ +10dBm
Resolution	0.01dBm; mW;μW; nW		
Calibrated Wavelength	850 / 980 / 1300/ 1310/ 1490/ 1550/ 1610/ 1625/ 1650nm		
Auto Detection — Frequency	270 Hz, 1kHz, 2kHz		
Auto Detection — Wavelength	850 / 1310/ 1490/ 1550/ 1610nm		
Connectors	FC / SC (default); ST / LC (optional)		
Environment	-10 ~ +60°C, humidity < 80%		
Battery Life	>100 hrs (with included battery; backlight off)		
Dimensions	7.3" x 3.3" x 1.8" (185mm x 85mm x 45mm)		
Weight	< 300g (without battery)		

PON POWER METER

ABOUT THE PRODUCT

Our EP310 PON Power Meter is a reliable tool for fast and accurate validation of PON network installations. It simultaneously measures 1310, 1490, and 1550 nm wavelengths, features user-defined thresholds, and offers USB data transfer for simplified analysis and reporting—ideal for efficient field testing.

EP-300 SERIES

OpticalParameters					
Wavelength	1310nm		1490nm	1550nm	
Measurement range — CW	-45 ~ +10dBm		-45 ~ +12dBm	-40 ~ +25dBm	
Measurement range — BW	-30 ~ +8dBm				
Passthroughinsertionloss	< 1.5dB				
Spectral Passband	1260~1360nm		1480~1500nm	1540~1560nm	
Wave Isolation	1490nm	>50dB	1310nm	>40dB	1310nm	>40dB
Wave Isolation	1550nm	>50dB	1550nm	>40dB	1490nm	>40dB
ORL	-55dB(APC connector)				
Fiber Type	Single-mode fiber, 9/125μm				
Connector Type	FC/SC/ST-UPC(default), APC(optional)				
General					
Power uncertainty	<0.5 dB				
Units	dBm; dB; mW; μW; nW				
Resolution	0.1 dBm				
Battery	3x AA batteries (EP300); 2x AA batteries (EP310); AC 100~240V ±10% output / DC 5V (adapter)				
Limit function	12 programmable limit profiles with Toolbox software				
Data storage	Up to 1,800 measurements; save & transfer data with USB port				
Environment	Operating temperature -10 ~ +60°C; storage temperature -20 ~ +70°C				
Dimensions	7.3" x 3.3" x 1.8" (185mm x 85mm x 45mm)				
Weight	10.6oz (< 300g) (w/o batteries)				

Features

Simultaneously Verifies the Power Level of all PON

Wavelengths (1310nm, 1490nm, 1550nm)

Pass/ Fail Analysis Helps User Quickly Interpret

Result and Ensures Consistent PON Network Turn-Up

LASER SOURCE

ABOUT THE PRODUCT

Our LS310 Series light sources are engineered for precise fiber optic testing across FTTx, CATV, PON, and long-haul networks, delivering stable, accurate measurements with high-quality semiconductor lasers and seamless integration with Visual Fault Locators for fault detection.

LS300 SERIES

Model	LS310A	LS310B
Designation	Double Wavelength Light Source	Triple Wavelength Light Source
Wavelengths	1310 ± 20nm (FP-LD) 1550 ± 20nm (FP-LD)	1310± 20nm (FP-LD) 1550± 20nm (FP-LD) 1490 ± 3nm (DFB)
Output power	> -5dBm	> -3dBm
RMS	< 5nm	
Fiber	Single-mode, 9/125µm	
Power stability (after 15min warmup)	± 0 04dB @ 20ºC (30 min) ± 0 08dB @ 20ºC (8 hrs)	
Optical adapter	PC, FC / ST (default); APC, ST / LC (optional)	
Tone generation	270 Hz, 1kHz, 2kHz	
Battery	2x AA batteries; > 40hrs continuous operation (backlight off)	
Adapter	AC 100V~240V± 10% output / DC 5V	
Operating Temperature	-10ºC ~ +60ºC	
Storage Temperature	--20ºC ~ +70ºC	
Dimensions	7.3" x 3.3" x 1.8" (185mm x 85mm x 45mm)	
Weight	10.6 oz (< 320g) (without battery)	

OPTICAL MULTIMETER

ABOUT THE PRODUCT

Our EP710 Series optical multimeters combine a light source and optical power meter in one compact handheld unit, making them the perfect all-in-one solution for testing CATV, FTTx, and PON networks with precision and ease.

EP710 SERIES

Optical Power Meter	EP710A	EP710B	EP710C	EP710D
Input range	-50~ +26dBm		-70~ +10dBm	
Accuracy	± 0.17dB (±3%)			
Liner	± 0.07dB			
Resolution	0.01 dBm, mW, uW, nW			
Calibrated wavelength	850,980,1300,1310,1490,1550, 1610,1625, 1650 nm			
Connectors	FC/SC (default);ST/LC (optional)			
Auto detection – Frequency	270 Hz, 1kHz,2kHz			
Auto detection – Wavelength	850,1310, 1490, 1550, 1610nm			
Insertion loss accuracy	<± 1dB			

Light Source	EP710A	EP710B	EP710C	EP710D
Central wavelength	1310 ± 20nm, 1550 ± 20nm (FP)	1310 ± 20nm, 1550 ± 20nm (FP), 1490± 3nm (DFB)	1310 ± 20nm, 1550 ± 20nm (FP)	1310 ± 20nm, 1550 ± 20nm (FP), 1490± 3nm (DFB)
Output power	>-5dBm		>-3dBm	
Power stability (after 15-min.warmup)	± 0 04dB @ 20ºC (30min) ± 0 08 @ 20ºC (30min)			
Tone generation	270Hz, 1KHz, 2KHz			
Optical adapter	PC, FC/SC (default); APC, ST/LC (optional)			
General				
VFL	10mW			
Working time (backlight off)	>100 hrs (OPM); >40 hrs (light source); >10hrs (VFL)			

DEVISER METER

DVB-C METER

ABOUT THE PRODUCT

The C30/C30 Plus DVB-C & Optical Power Meter is specially designed for installing, maintaining, and verifying digital and analog cable service. This high-accuracy optical power meter offers 7 wavelengths and reference values. With its streamlined, lightweight design and user friendly interface, the C30 Plus offers the modern field technician optimum cost performance for numerous applications. The C30 Plus supports cable TV analysis, with digital measurements such as Power Level, MER, and BER. It also functions as a signal level meter for CATV applications, featuring channel video level, video-to audio level, C/N, full scan,tilt, and other modes.

C30+ & C30

Feature	Deviser C30	Deviser C30+
Signal Support	Analog TV + Digital DVB-C	Analog TV + Digital DVB-C+Optical Power Measurement
Frequency Range	5 MHz-1000 MHZ	
Digital Modulation Support	QAM 16/32/64/128/256 (J.83 Annex A/B/C)	
Measurements	Power Level, MER, BER, C/N, Tilt, Channel Scan	Power Level, MER, BER, C/N, Tilt, Channel Scan + OPM
MER Range	Up to 40 dB	
BER Measurement	Pre and Post BER	
Optical Power Meter (OPM)	Not available	Built- in (InGaAS), Range:- -50 to +27dBm,7 Wavelengths
Wavelengths Supported (OPM)	–	850, 1300, 1310, 1490, 1550, 1577, 1625nm
Display	128 x 64 backlit LCD	Same LCD Display
Ports	RF Input, USB	RF Input, USB, Optical Port (SC/FC/ST)
Use Case	For CATV field engineers focusing on RF	For CATV + field engineers needing RF+ optical tools

VISUAL FAULT LOCATOR

ABOUT THE PRODUCT

The Deviser **VF10** is a pocket-sized visual fault locator, perfect for identifying breaks, bends,splices, or faulty connectors in an optical fiber installation - as well as other causes of signal loss.

VF-10

VF-10 Features
25mm Universal Connector
Features Pulse and CW Modes
Illuminates Distance Upto 10km

OPTRONIX NETWORKING PRODUCTS

Candid Optronix offers best GPON/XPON Products in India. find the top brand fiber optic HGU (HOME GATEWAY UNIT)/ONT from Optronix.

Product Range:
•**GEPON & GPON OLT**: The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to deploy in an compact room environment.
•**XPON ONT**: XPON can efficiently handle multiple services like internet, TV, and voice, while ensuring scalable and flexible management.
•**SFP/PON SFP Modules:** A small form-factor pluggable (SFP) transceiver is a compact, hot-swappable input/output transceiver used in data communication and telecommunications networks.

OPTRONIX PON SFP

Our PON SFP is a high-performance gigabit optical transceiver designed for seamless integration in PON systems, fully compliant with ITU-T G.984.2 standards—ensuring reliable connectivity, fast data transmission, and compatibility across GPON networks.

C++++/ Px20++++

PON SFP Features
Voltage: 3.3V
Distance: 20km
Tx Optical Power: 9+dBm
Wavelength: 1490/1310nm
Working Temperature (°c):0~70 Degree
Connector Type: Sc Connector
Low Power Consumption

OPTRONIX GEPON OLT

ABOUT THE PRODUCT

Our GEPON OLTs are compact 1U rack-mount solutions designed for high performance and easy deployment in space-constrained environments, ideal for Triple-Play, VPN, IP camera, and enterprise LAN applications.

OP100P4/P8 Features

| Support DNS, IPv6 Ping, IPv6 Telnet
| Power Backup
| L3 Routing Features
| Support MLD v1/v2 Snooping
| Support ACL Based on Source IPV6 Address, Destination IPv6 Address, L4 port, Protocol type etc.
| ONU Remotly Access By OLT
| Friendly SNMP, TELNET, CLI, WEB

OP-100P4 (4 PON GEPON OLT)

OP-100P8 (8 PON GEPON OLT)

Item		OP100P4	OP100P8
Chassis	Rack	1U 19 inch standard box	
Uplink port	Qty	8	16
	Rj45	4	8
	SFP/SFP+	4	
EPON Port	Qty	4	8
	Physical Interface	SFP Slots	
	Max splitting ratio	1:64	
	Supported PON module level	Px20, Px20+, Px20++, Px20+++, Px20++++	
Backplane Bandwidth (Gbps)		128	
Port Forwarding Rate (Mpps)		71.424	89.280
Dimension (LxWxH)		442mm*200mm*43.6mm	442mm*320mm*43mm
Weight		2.705KG	4.5KG
Power Supply		AC 100~240 V,50/60 Hz	
Power Consumption		30W	55W
Operating Environment	Working Temperature	-20~+60°C	
	Storage Temperature	-40~+70°C	
	Relative Humidity	5~95% (non-condensing)	
Power supply	AC	Working Voltage Range : 100~240V, Rated Voltage:110V/220V	

OPTRONIX GPON OLT

ABOUT THE PRODUCT

Our **GPON OLT** products are 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to be deployed in compact room environment

OP-100P16G/ 8G/ 4G Features

- BSNL/MTNL Supported Qinq
- DHCP/IGMP Snooping
- Friendly SNMP/TELNET, CLI, WEB, SSH v2 Management
- L3 Routing Features
- ONU RemotlyAccess by OLT
- Switching Capacity: 102.5Gbps
- System configuration with SNMPv1/v2/v3
- NTP(Network Time Protocol)

OP-100P16G - 16 PON GPON OLT

OP-100P8G - 8 PON GPON OLT

OP-100P4G - 4 PON GPON OLT

Specifications

| Item		OP-100P4G	OP-100P8G	OP-100P16G
Chassis	Rack	1U19 Inch Standard Box		
Uplink Port	QTY	4	8	
	RJ45(GE)	2	4	
	SFP(GE)/SFP+(10GE)	2	4	
Gpon Port	QTY	4	8	16
	Physical Interface	SFP Slots		
	Max splitting ratio	1:128		
Management Ports		1*10/100/1000BASE-T out-band port, 1* CONSOLE port,1*USB2.0	1*10/100/1000BASE-T out-band port, 1*CONSOLE port,1*USB2.0,1*Type-C USB (for console)	
Backplane Bandwidth (Gbps)		104	120	
Port Forwarding Rate (Mpps)		47.616	124.992	
PON Port Specification	Transmission Distance	20KM		
	GPON port speed	Upstream 1.244Gbps,Downstream 2.488Gbps		
	Wavelength	TX 1490nm,RX 1310nm		
	Connector	SC/UPC		
	Fiber Type	9/125µSMF		
	Supported PON module level	Class B+, C, C+, C++, C+++, C++++		
Power Supply	AC	Working Voltage Range:100~240V, Rated Voltage:110V/220V		
Management Mode		EMS, Web, SNMP, Telnet, CLI		

OPTRONIX XPON ONT

ABOUT THE PRODUCT

Candid Optronix offers best **XPON** Products in India. find the top brand fiber optic HGU (HOME GATEWAY UNIT)/ONT from Optronix. **1GE** series is designed as Router in deferent FTTH solution, The carrier-class FTTH application provides data service access. 1GE series is based on mature and stable, cost-effective XPON technology

OP-101X	OP801GW	OP821GWV

XPON ONT Features	
	OP821GWV-D(with FEM)
O&M	• OAM/OMCI,Telnet,WEB,TR069 • Support full management of HGU functions by Optronix
Connect Mode	• Support bridge, router & bridge/router mixed mode
Data Service Functions	• 2K MAC address table • 8 full range VLAN ID • Support VLAN tag, untag, transparent, trunk,translation mode
Wireless	• Integrated 802.11b/g/n/ac • IEEE 802.11b/g/n/ac Wi-Fi@ 5GHz(2x2) • IEEE 802.11b/g/n Wi-Fi@2.4GHz(2x2) • Encoding scheme:BPSK,QPSK,16QAM and 64QAM • Easymesh
VoIP	• SIP and IMS SIP • G.711a/G.711u/G.722/G.729 Codec • Echo cancellation,VAD/CNG,DTMF Relay • T.30/T.38 FAX • Caller Identification/Call Waiting/Call Forwarding/Call Transfer/Call Hold/3-way Conference • Line testing according to GR-909
L3	• IPv4, IPv6 and IPv4/IPv6 dual stack • DHCP/PPPOE/Static • Static route, DHCP Server • NAT/DMZ/DDNS/Virtual Server
Security	• Support Firewall • Support Mac filter Based on MAC or URL • Support ACL
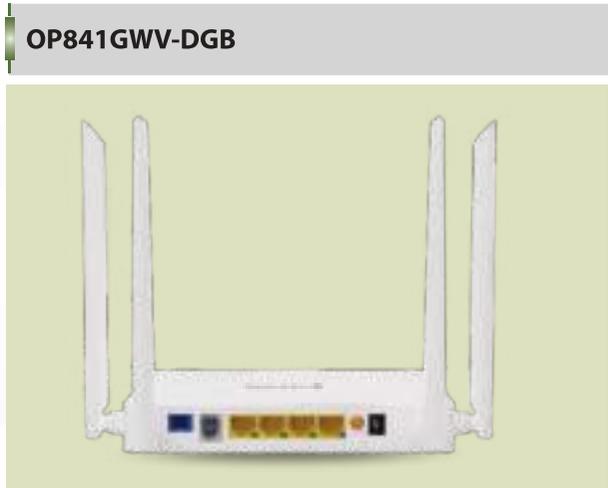
OP821GWV-D

OP841GWV-DGB

S.No.	Parameter	OP841GWV-DGB	OP821GWV-D(with FEM)	OP821GWV-D	OP821GWV	OP801GW	OP101X
1	GE PORT	4	2	2	1	1	1
2	FE PORTS	0	0	0	1	0	0
3	PON PORT	1(SC/PC)	1(SC/PC)	1(SC/PC)	1(SC/PC)	1(SC/PC)	1(SC/PC)
4	VOICE PORT	1	1	1	1	0	0
5	FEM CHIP	YES	YES	NO	NO	NO	NO
6	WIRELESS STANDARD	802.11b/g/n/ac	802.11b/g/n/ac	802.11b/g/n/ac	802.11b/g/n	802.11b/g/n	NA

CATV EDFA

ABOUT THE PRODUCT

Our CATV EDFA is a high-performance amplifier for 1550nm fiber transmission, delivering powerful, distortion-free output with excellent gain flatness for analog/digital TV, high-speed internet, and voice over long distances. With ultra-low noise, outstanding OSNR, and intelligent network monitoring (SNMP/Web/RS-232), it ensures carrier-grade reliability. Its compact rack-mount design, redundant power supply, and versatile configurations make it ideal forCATV headends, telecom backbones, and broadband networks.

Features
JDSU/OCLARO/LUMENTUM Pump are Used for Better Performance and Low Noise
Maximum Output Power 31dBm
Erbium Ytterbium Co.Doped Double Clad Fibre Technology
Modern Design for Easy Maintenance & Management
Complete Audible and Visual Alarm Function Supporting Both Indicator Light and Buzzer
One Touch Double Power Supply
Output Power Range +0.5 to -4dBm is Adjustable
Standard Network Management Interface (SNMP) Support Web Management

Specifications

Items	Mini	16x4	19x8	19x16
Wavelength	1535~1565			
Optical Output Power	16	19		
No. of Ports	2	4	8	16
Pump Power Output	19.5	26	29 .5	33

General

Item	Technical Parameters
Wavelength	1535~1565nm
Optical Input Power	-5~+10dBm
Optical Output Power	10~19/ 16~22/ 13~25 dBm
Output Power Stability	$\pm$ 0.5dB
Noise Fig.	$\leq$0.4/ $\leq$0.4/ $\leq$0.5 dB
Return Loss Input Port	$\geq$45dB
Return Loss Output Port	$\geq$45dB
Pump Leakage Input Port	$\leq$-30dBm
Optical Connector (IN/OUT)	FC/APC, SC/APC
Power Source (Vac)	115-265V, Plug-in type Power
Power Source (Vdc)	-48Vdc, Plug-in type Power
Working Temperature	0-50ºC
Size	19x15x1.75"

CE0416M

CE0419M

CE0819M

CE1619M

PON EDFA

ABOUT THE PRODUCT

Our WDM EDFA/PON EDFA is a high-performance optical amplifier that combines CATV and OLT signals, delivering powerful CATV output for integrated network applications. With low noise, wide dynamic range, and intelligent network management (SNMP, Web, RS-232), it ensures stable, long-distance transmission in FTTx and HFC networks. Its compact rack-mount design, redundant power options, and plug-and-play installation make it ideal for modern broadband and telecom systems.

Features

4, 8, 16, 32 uplink optical ports used in OLT, 4, 8, 16, 32 ports of PON and 1550nm CATV EDFA Combiner out, Each output port for optical amplifier has built-in well-performed CWDM, and 1550nm CATV's out-put optical port multiplexes 1310/1490n's data stream and not lose.

Double cooling system to protect the pump laser.

RJ45 Port for Plug-in SNMP system can realize remote management at any time.

Adopting JDSU, Bookham and Fitel laser.

LCD displays the parameters, functions and trouble alarm.

Switch power supply can work in the range of 90V ~ 265V AC or-48V DC.

PE0819M

Specifications

Items	19x4	19x8	19x16	19x32
Wavelength	1535~1565			
Optical Output Power	19			
No. of Ports	4	8	16	32
Pump Power Output	26	29.5	33	36.5

PE1619M

Items	Unit	Parameter	Supplement
CATV Operation Wavelength	nm	1530~1565	CATV
OLT Pass Wavelength	nm	1310/1490	
CATV Pass Wavelength loss	dB	0.8	1550nm
OLT Pass wavelength loss	dB	0.8	1310/1490nm
CATV & OLT isolation	dB	40	
CATV Input Power	dBm	-5~+10	
Each Ports Output Ports	dBm	6~22	
Noise Figure(Pin=0dBm)	dB	4.5~5.0	
Echo Loss	dB	55	
SNMP Network Management Interface		RJ45	
Optical Connector (IN/OUT)		SC/PC, SC/APC	LC/APC
Power Supply	V	90~265	220 VAC
		30~72	-48 VDC
Power Consume	W	50~150	
Work Temp.	°C	0~65	
Storage Temp.	°C	-40~80	
Relative Humidity	%	5~95	
Size (W)x(D)x(H)	"	19x15x1.75	1U
	"	20x19x3.5	2U

PE3219M

Optical External Transmitter 1550nm

ABOUT THE PRODUCT

The Optronix 1550 nm External Modulation Laser Transmitter delivers exceptional CTB, CSO, and SBS performance with advanced system optimization and RF pre-distortion technologies, ensuring superior CNR stability and ultra-long-distance transmission. Its compact 1U design features intelligent power redundancy, temperature control, and real-time laser monitoring for continuous reliability. With SNMP-compatible network management and SCTE HMS compliance, it guarantees maximum performance, precision, and control for modern optical networks.

Features

High quality: Built on our proprietary system optimization and RF pre-distortion technology, this transmitter achieves maximum CTB, CSO, and SBS performance while maintaining exceptional CNR stability—ensuring the highest signal quality across every transmission.

Flexibility: To deliver outstanding CSO performance, the transmitter employs precision phase modulation technology in its external modulator, maximizing optical power efficiency for long-distance fiber transmission. Its field-adjustable SBS threshold (13–18/19 dBm) offers flexible configuration to suit diverse network environments and transmission needs.

Reliability: The compact 19" 1U standard rack design integrates a high-performance dual switching power supply, capable of operating on 90–250Vac city voltage with millisecond-level automatic switching for seamless redundancy. The intelligent chassis cooling system features automatic temperature control to maintain optimal performance in all conditions.

Intuitive: At the heart of the system is a premium-grade DFB laser, continuously monitored by an advanced microprocessor control system. The intuitive LCD interface provides real-time operational data, ensuring precision monitoring and maintenance ease.

Network type: Equipped with a fully compliant SNMP transponder, the transmitter meets national and SCTE HMS standards, enabling comprehensive network management and remote monitoring capabilities—a true fusion of performance, reliability, and intelligent control for modern optical transmission networks..

Specifications

No.	Items	Units	Parameter	Note
1	Laser Type			See Specifications
2	Wavelength	nm	1550+10	Specified before ordering
3	Optical Modulation		External modulation	
4	Optical output power	dBm	2x7, 1x5, 1x6,1x7	See Specifications
5	SBS threshold	dBm	16	13~18/19 adjustable
6	Optical Connector		SC/APC	Specified before ordering
7	Frequency range	Mhz	47~860 (1080)	
8	CNR	dB	≥52.0	GY/T143-2000 6.2.3.5
9	Flatness	dB	±0.75	GY/T143-2000 6.2.4
10	RF input level	dBuV	78~88	AGC automatic control
11	C/CTB	dB	≥65.0	GY/T143-2000 6.2.5
12	C/CSO	dB	≥65.0	GY/T143-2000 6.2.6
13	RF input impedance	Ω	75	
14	RF input Return Loss	dB	>16(47~550)MHz >14[55~750(862)MHz	GB/T11381.1 4.2.2.2.5
15	VCC	V	90~250Vac	48VDC optional
16	Power	W	≤50	Single- supply operation
17	Working Temperature	C	0~50	Automatic temperature control
18	Storage Temperature	C	-20~85	
19	Working relative humidity	%	20%~85%	
20	Size	"	19"x11"x1.75"	(W) x (D) x (H)
21	Network management interface		RJ45	supporting the browser and SNMP

Note:

1) In the condition of stipulated link-loss, configurate 59 PAL-D analog television channel signals within 550MHz frequency, in the range of 550MHz 750 (862) MHz frequency transmit digital modulation signals, digital modulation signal level (in 8MHz bandwidth) is 10dB lower than the analog signal carrier level, when the optical input power is 0dBm. you can measure the carrier combination triple beat ratio (C/CTB), carrier combination of second-order beat ratio (C/CSO) and the carrier to noise ratio.

2) Fiber:50KM+EDFA

MANUFACTURING

ELECTRONICS MANUFACTURING SERVICES (EMS)

 We have established a world-class, state-of-the-art manufacturing facility in Kotdwara, Uttarakhand, reflecting our unwavering commitment to technological excellence and innovation.
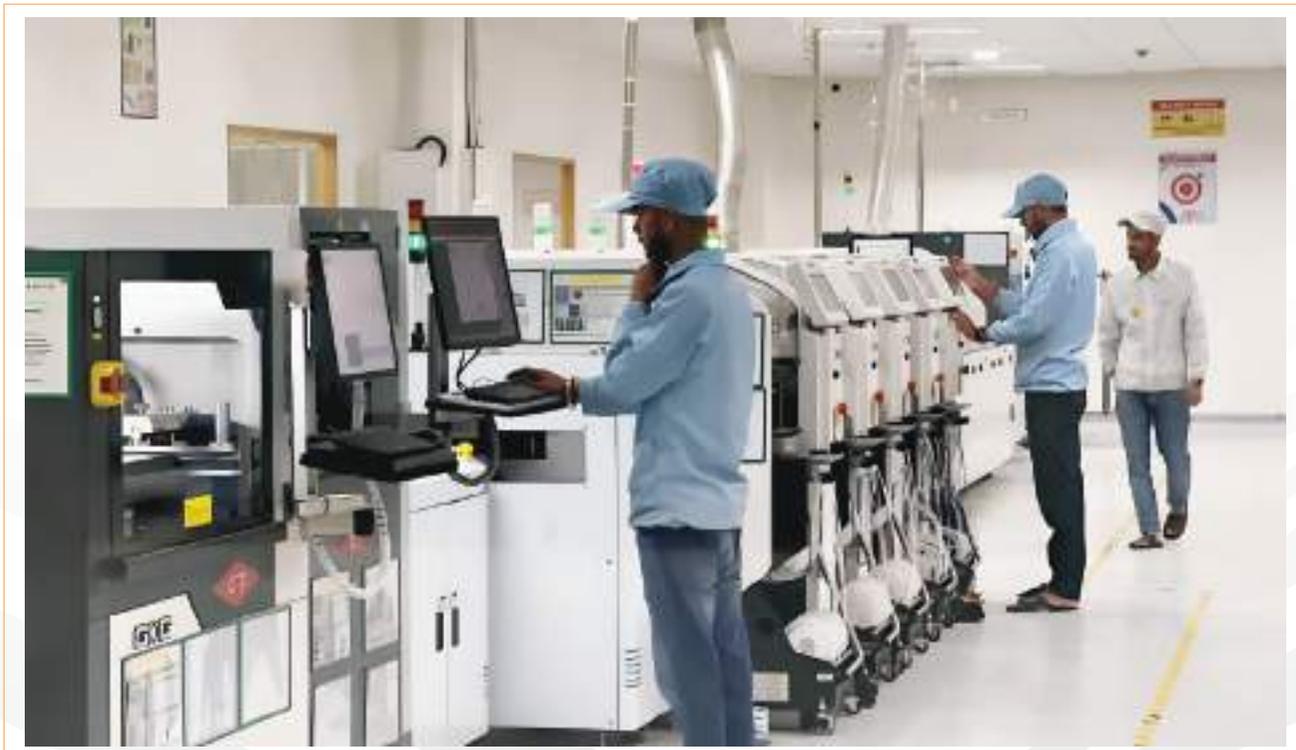
Spanning over 100,000 sq. ft. of fully air-conditioned, modern infrastructure, the facility designed to optimize efficiency, quality, and operational control across all functions.

Manufacturing under one roof—creating a powerful synergy that drives high performance and accelerates delivery of next-generation solutions.
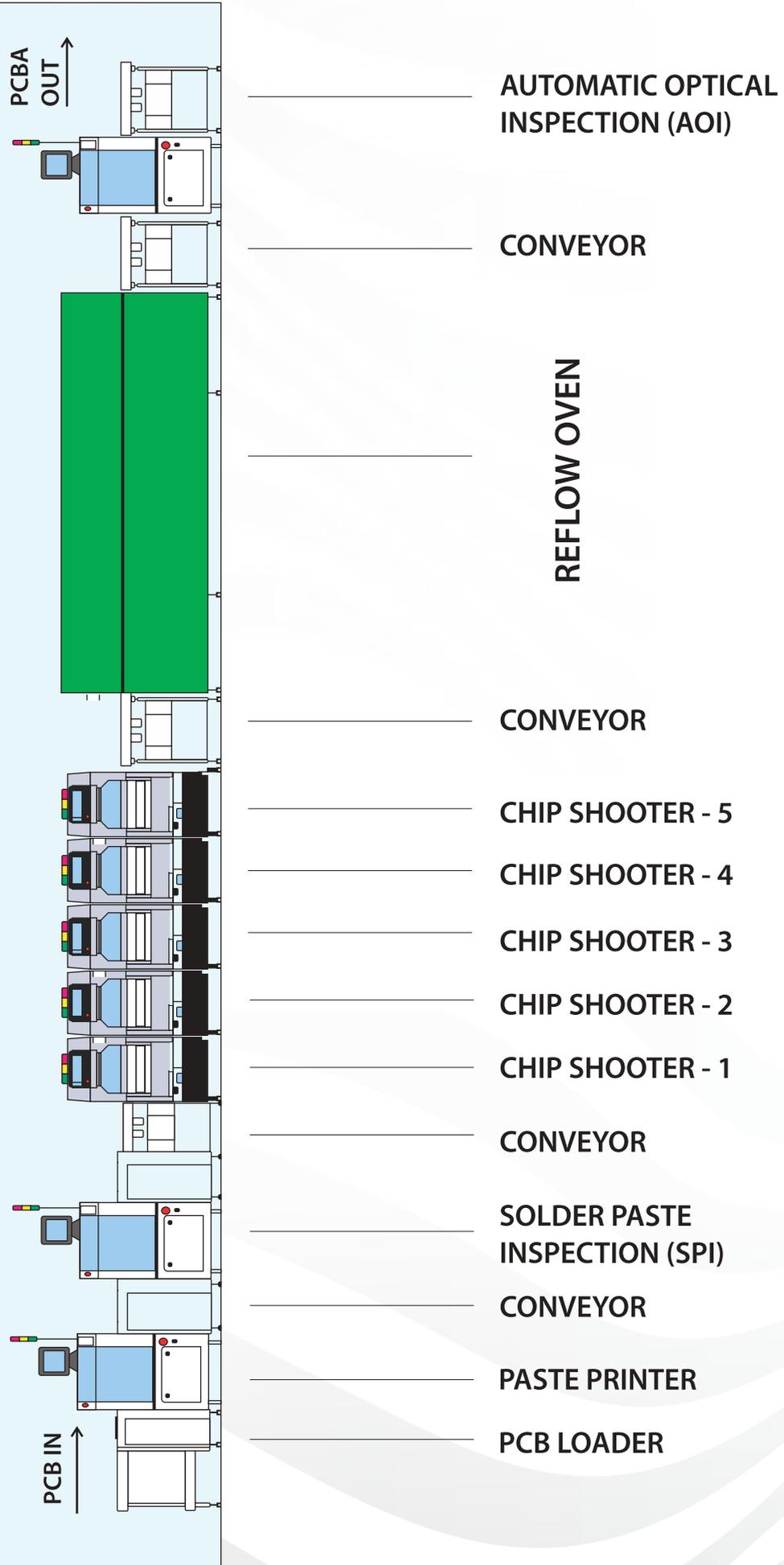
Our electronics manufacturing division is equipped with:

- Fully automated, ultra-high-speed Surface Mount Technology (SMT) lines, featuring:
- Panasonic Chip Mounters (NPM D-3A) (Japan): capacity 4 Lac CPH
- 3D Koh Young SPI/AOI systems (Korea)
- GKG G-titan solder paste printer (Taiwan)
- Baking Oven, Automatic Stencil Cleaning Machine, Vacume Sealing Machine
- Two Manual Insertion Lines with Motorized Conveyor with JT wave soldering (Taiwan)
- Two Dedicated Touchup & Testing Lines
- Two Dedicated fully Equipped Line for ONU/ONT Testing: capacity 3000 pieces per day

A highly experienced New Product Development (NPD) Department that ensures seamless integration, strategic alignment, and efficient coordination between suppliers and buyers, fostering accelerated innovation, reduced time-to-market, and uncompromised product quality.

SMT LINE LAYOUT

PCBA OUT →

PCB IN →

OPTRONIX ®

AUTOMATIC OPTICAL INSPECTION (AOI)

CONVEYOR

REFLOW OVEN

CONVEYOR

CHIP SHOOTER - 5

CHIP SHOOTER - 4

CHIP SHOOTER - 3

CHIP SHOOTER - 2

CHIP SHOOTER - 1

CONVEYOR

SOLDER PASTE INSPECTION (SPI)

CONVEYOR

PASTE PRINTER

PCB LOADER

FULLY AUTOMATIC SMT LINE

SOLDER PASTE PRINTER- GKG (G – TITAN)

- **Board Handling**
  Min. (L x W) - 50mm x 50mm Max.(L x W) - 510mm x 510mm.

- **PCB Thickness:** 0.4 ~ 6mm.

- High Performance Process Capability 2Cpk@±18 Microns

- **Core Cycle Time -** (excluding printing & cleaning) <8.5secs.

- **Optimum-**Paste Control(OPC) Auto Paste Dispensing.

- **Stencil Frame size (Lx W)** -ASM, 470mm x 370mm to 737mm

SOLDER PASTE INSPECTION SPI KOH YOUNG (Ky8080)

- **Inspection Range:-**Volume, Area,
  Height, Offset, Bridging and Shape Deformity

- **Camera:-** 2M Pix XY Pixel
  Resolution:- 20 μm 0.79 mils,
  Z Resolution:- 0.37 μm 0.015 mils Height

- **Accuracy:** 2MM

- **Gage R&R :-** < 10 % at 6Sigma (± 50 tolerance)

- **Inspection Program Generation:**
  Import Gerber Data, Zoom head, Off Line SPC, Bar
  Code Reader
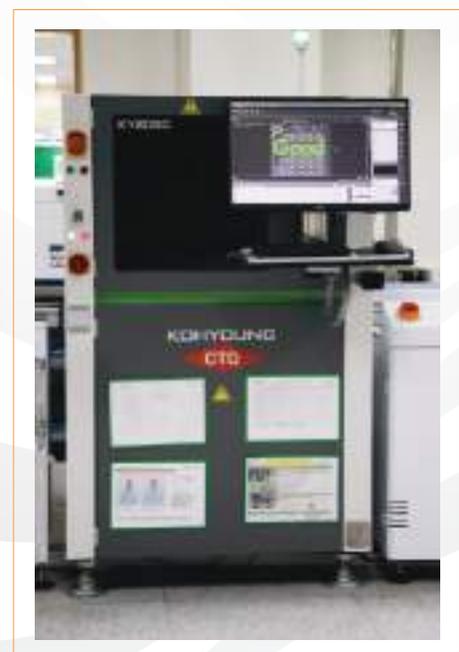
CHIP MOUNTER NPM –D3 –A (PANASONIC)

- **Dual Line Mode :** L 50 x W 50 ~ L 510 x W 300
- **UltraHigh Speed:** 4 Lac CPH
- **Placement accuracy (Cpk1) :** ± 40 μm/chip ± 30 μm / QFP
- **Component dimensions (mm):** 0402 chip to L 32 xW 32 x L100 x W 90
- **Component Supply :** Taping, Stick, Tray

REFLOW OVEN (JT RS- 1000 II - N2)

- **Heating Zone** : 10 Top Side, 10 Bottom Side
  Cooling Methods : Air Oven, Forced Air,
- Nitrogen Oven (Optional), Water Chiller.

3D AUTOMATIC OPTICAL INSPECTION (AOI) KOH YOUNG ZENITH ALPHA

- **Chip Range :** 01005
- **PCB size :** 330 x 330mm
- **Camera :** 8 M Pixel / 15μm resolution
  Z resolution :- 1μm
  The smallest component size: 300μm (0402)
  4 projectors with the same capacity as 8 projectors
  PCB size :- 490 x 510 mm
  3D inspection speed :- 27.14cm²/sec
  Camera reads 1D and 2D barcodes,
  Offline programming station, Defect inspection station,
  Service station.

X-RAY INSPECTION MACHINE

An X-ray inspection machine for PCBs (Printed Circuit Boards) is a device that uses X-rays to check inside the board for hidden problems. It can see through layers and spot issues like broken solder joints, missing parts, or tiny cracks that you can't see with the naked eye. This is especially useful for modern PCBs that have very small and complex parts, such as BGA chips, where the connections are hidden underneath. X-ray inspection helps ensure the PCB is built correctly and works properly, making it an important tool in electronics manufacturing and quality control.

![OPTRONIX logo]

PCB BAKING OVEN

- High Temperature 50^0 to 300^0C.

- Safety Controller Alarm

- Auto Cut Setting

STENCIL CLEANING MACHINE (K-2000)

- Dedicated Cleaning of glass lens & BGA bottom clearance of PCBA.

- High speed centrifugal evaporation, No water mark residue on the work piece surface

- Cleaning process: chemical cleaning (options)

- DI water rinsing - two fluid cleaning - centrifugal drying.

- Solvent filter circulation, low operation cost.

- The two fluid cleaning apparatus, improve the cleaning effect.

- Solvent Capacity : Max 40L

- Cleaning Method : 360°rotary spray solvent

- Drying Method: Compressed air drying + high - speed centrifugal evaporation

OPTRONIX EMS

MANUAL INSERTION LINE (MI)

LEAD FREE WAVE SOLDERING M/C (JT- WS – 350)

- Control system pc + plc

- Transmission method air cylinder

- Spray pressure 0.25mpa --0.4mpa

- Flux flow 10 -100ml. Minimum

- Exhaust method up & down exhaust

- Control mode pid + ssr +hot air

- Preheating zone 4 numbers

- Preheating length 1800 mm

- Preheating temp. room temperature-300C

TOUCHUP & TESTING LINE

Our team ensures perfection with meticulous touch-ups and thorough product testing.Committed to delivering quality you can trust, right from the production line.

ONU/ONT TESTING LINE

At our organization, a dedicated team of highly skilled technicians performs rigorous, precision-driven testing of ONU and OLT devices to ensure optimal performance and long-term reliability. Through our unwavering commitment to quality and engineering excellence, we deliver robust connectivity solutions that meet and exceed industry expectations at every stage of the production process.

REWORK STATION

A rework station is a special area where faulty PCBs (circuit boards) are fixed. If a board has problems like bad solder joints or missing parts, it is sent here. Workers use tools like soldering irons, microscopes, and hot air guns to repair the defects. The rework station helps save boards instead of throwing them away, which reduces waste and cost.

PCB CLEANING MACHINE

A PCB cleaning machine is used to remove dust, dirt, oil, or soldering residue from circuit boards. It uses brushes, air, or special cleaning fluids to make the board clean before or after assembly. This helps improve performance and prevents problems like short circuits or poor soldering.

DRY CABINET / DESICCATOR

A dry cabinet or desiccator is used to store PCBs and electronic parts in a dry place. It protects them from moisture, which can cause damage or bad soldering.

ESD CONTROL SYSTEM

An ESD (Electrostatic Discharge) control system protects electronic parts from damage caused by static electricity. It includes tools like grounding wrist straps, anti-static mats, and special clothing to safely remove static charges during handling and assembly.

ENVIRONMENT CONTROL AND MONITORING CLASS 100+

Environment control and monitoring in Class 100+ cleanrooms ensures low dust, stable temperature, humidity, and clean air for PCB safety.

IN-CIRCUIT TESTER (ICT)

An In-Circuit Tester (ICT), also called an insertion tester, is a machine that checks if a circuit board is working correctly. It uses small pins to touch parts of the board and test each component, like resistors and chips. The ICT can find problems such as missing parts, wrong parts, or bad connections. It is fast and helps make sure the board is made properly before being used in a device. This machine is often used in factories to test many boards quickly and make sure they are good before sending them out.

PCB HANDLING TRANSPORT SYSTEM

A PCB handling transport system moves circuit boards safely between different machines during production. It helps keep the boards steady, prevents damage, and makes the process faster and more organized in factories.

CONVEYOR SYSTEM FOR MOVING PCB

A conveyor system for moving PCBs is a machine that carries circuit boards from one station to another during manufacturing. It uses belts or rollers to move the boards safely, quickly, and smoothly between processes.

LOADER / UNLOADER

A PCB loader and unloader are machines used in production lines. The loader feeds empty PCBs into the line for processing, while the unloader collects finished PCBs at the end. They help automate and speed up the work.

BUFFER / ACCUMULATOR

A buffer and accumulator are machines used in PCB production lines to manage the flow of circuit boards: A buffer temporarily holds PCBs when one machine is slower or stops, preventing delays in the line. An accumulator stores multiple PCBs to keep production running smoothly, especially during short stops or changes.

NG / OK SORTER

An NG/OK sorter is a machine used at the end of a PCB inspection process. It separates boards based on test results:OK boards (no problems) go to one side for the next step.NG (No Good) boards with defects go to another side for repair or checking.

OPTICAL FIBER CABLE MANUFACTURING

Candid Optronix Pvt. Ltd. operates a state-of-the-art **Optical Fiber Cable Manufacturing Facility** in Kotdwar, Uttarakhand. Equipped with high-speed production lines, integrated QA, and dedicated utilities, we deliver **consistent, high-quality optical fiber cables** for backbone, access, and FTTH networks. Our process covers **end-to-end manufacturing**—from fiber coloring to final cable sheathing—with strict quality controls at every stage.

- We specialize in fiber coloring, buffering, sheathing, and FTTH sheathing to deliver superior performance and reliability.
- Precise fiber coloring ensures quick and error-free identification.
- Advanced buffering and high-quality sheathing provide extra strength and long-lasting protection against environmental challenges.
- For FTTH networks, our specialized sheathing ensures safe, flexible, and efficient connectivity for homes and businesses.
- Backed by dedicated utilities, robust support systems, and integrated quality assurance & testing at every stage, we guarantee cables that are consistent, durable, and ready to meet the demands of modern high-speed networks.

OPTRONIX OPTICAL FIBER CABLE SERIES

FEATURES

PEST RESISTANT
Our fiber optic cables feature rodent-Termite resistant sheathing that ensures long-lasting durability and reliable signal performance in harsh environments.

2KM STANDARD LENGTH
Our fiber optic cables come in standard lengths to ensure consistent performance, easy handling, and fast, efficient installation.

EXTERNAL USE
Our fiber cables for external use feature rugged, weather-resistant jackets that ensure reliable performance in harsh outdoor conditions and UV exposure.

FIRE RETARDANT
Our fire-retardant fiber cables use flame-resistant materials to prevent fire spread and enhance safety in critical installations.

PREMIUM QUALITY
Our premium quality fiber cables deliver superior performance, enhanced durability, and reliable signal transmission for high-end networking applications.

INTERNAL USE
Our internal-use fiber cables feature flexible, low-smoke, and fire-safe materials, making them ideal for indoor environments and structured cabling systems.

WATER RESISTANT
Our water-resistant fiber cables feature moisture-blocking materials to prevent water ingress, ensuring consistent performance in wet or humid environments.

RAPID DEPLOYMENT
Our rapid deployment fiber cables are designed for quick installation, minimizing setup time and accelerating network rollout.

TELECOMMUNICATIONS
Our fiber cables for telecommunications deliver high-speed, long-distance data transmission with minimal signal loss and maximum bandwidth capacity.

FEATURE	DROP CABLE	FLAT CABLE	NEO	GOLD	PLANTINUM	PLANTINUM DUAL TUBE
SHEATHING	Single Coating/Virgin HDPE	LSZH or PVC	Single Coating HDPE	Double/Super Double Coating HDPE	Virgin HDPE	Virgin HDPE
FRP	Dual 0.5 mm (Thermal/ UV Coated)	Dual 0.5/ 0.1mm	Dual 0.8 mm UV-Coated	Dual 0.8/1 mm UV -Coated	Dual 0.8/1 mm UV- Coated	Dual 1mm UV- Coated
YARN	300/600 TEX	-	600/1200 TEX	1200/1800/2400 TEX	1200/1800/2400 TEX	2400 TEX
DIAMETER (mm)	4.5/4.7/5mm	-	5.8/ 6 / 6.3 /6.5/7mm	5.8/ 6 / 6.3/ 6.5 / 7 mm	5.8/ 6 / 6.3/ 6.5 / 7mm	7.8/ 8mm
FIBER COUNT	2F	2F	2F, 4F, 6F, 12F	2F, 4F, 6F, 12F	2F, 4F, 6F, 12F	24F
RIP CORD	-	-	Optional	Optional	Optional	Optional
LINING OPTIONS	Line Orange/Blue/Green/Yellow on Black	-	Line Orange/Blue/Green/ Yellow on Black	-	Line Orange/Blue/Green/Yellow on Black	Line Orange/Blue/Green/Yellow on Black
NO. OF LOOSE TUBE	1	1	1	1	1	2
Fiber Type	Single Mode G.652D/ G.657A1/G.657A2	Single Mode G657A2	Single Mode G.652D	Single Mode G.652D	Single Mode	Single Mode G.652D

OPTICAL FIBER COLORING LINES(x2)

- **Maximum Line Speed:** 2500 m/min
- **Daily Capacity:** Approximately 5,000 km/day
  (two lines combined)
- **Monthly Capacity:** Approximately 130,000 km/month
- **Features:** Solid & dotted coloring (IEC/TIA code),
  nitrogen plant for uninterrupted runs, UV curing,
  diameter tolerance ~±1 µm.
- **Typical Specs:** Up to 12 fibers/pass
  - UV-curable inks
  - Adjustable high-intensity UV lamps.

BUFFERING LINES (LOOSE TUBE)(x2)

- **Maximum Line Speed:** 500 m/min
- **Daily Capacity:** approximately 1,000 km/day (two lines combined)
- **Monthly Capacity:** approximately 26,000 km/month
- **Features:** Controlled excess fiber length,
  minimal microbending, servo tension control.
- **Typical Specs:** PBT tubes
  - 1.0–3.0 mm tube OD
  - ±1 °C zone control.

SHEATHING LINES (x4)

- **Maximum Line Speed:** 100 m/min
- **Daily Capacity:** approximately 400 km/day (four lines combined)
- **Monthly Capacity:** approximately 10,400 km/month
- **Features:** Accumulators for non-stop spool changes,
  sequential meter tape marking.
- **Typical Specs:** HDPE/LSZH/UV-resistant compounds
  - ~2.0–20 mm OD
  - multi-stage water trough with
  - temperature control.

OPTRONIX EMS

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FTTH SHEATHING LINES (x1)

- **Maximum Line Speed:** 70 m/min
- **Daily Capacity:** approximately 70 km/day
- **Monthly Capacity:** approximately 1,800 km/month
- **Features:** Accumulator for continuous operation, **laser** outer-sheath printing.
- **Typical Specs:** HDPE/LSZH
  - ~2.0–8.0 mm OD
  - precision-controlled cooling

UTILITIES & SUPPORT SYSTEMS

- Nitrogen Generation Plant dedicated for coloring lines (no cylinder swaps).
- Air Compressors (oil-free) for pneumatic/process stability.
- Water Cooling Tower for extrusion/curing temperature control.
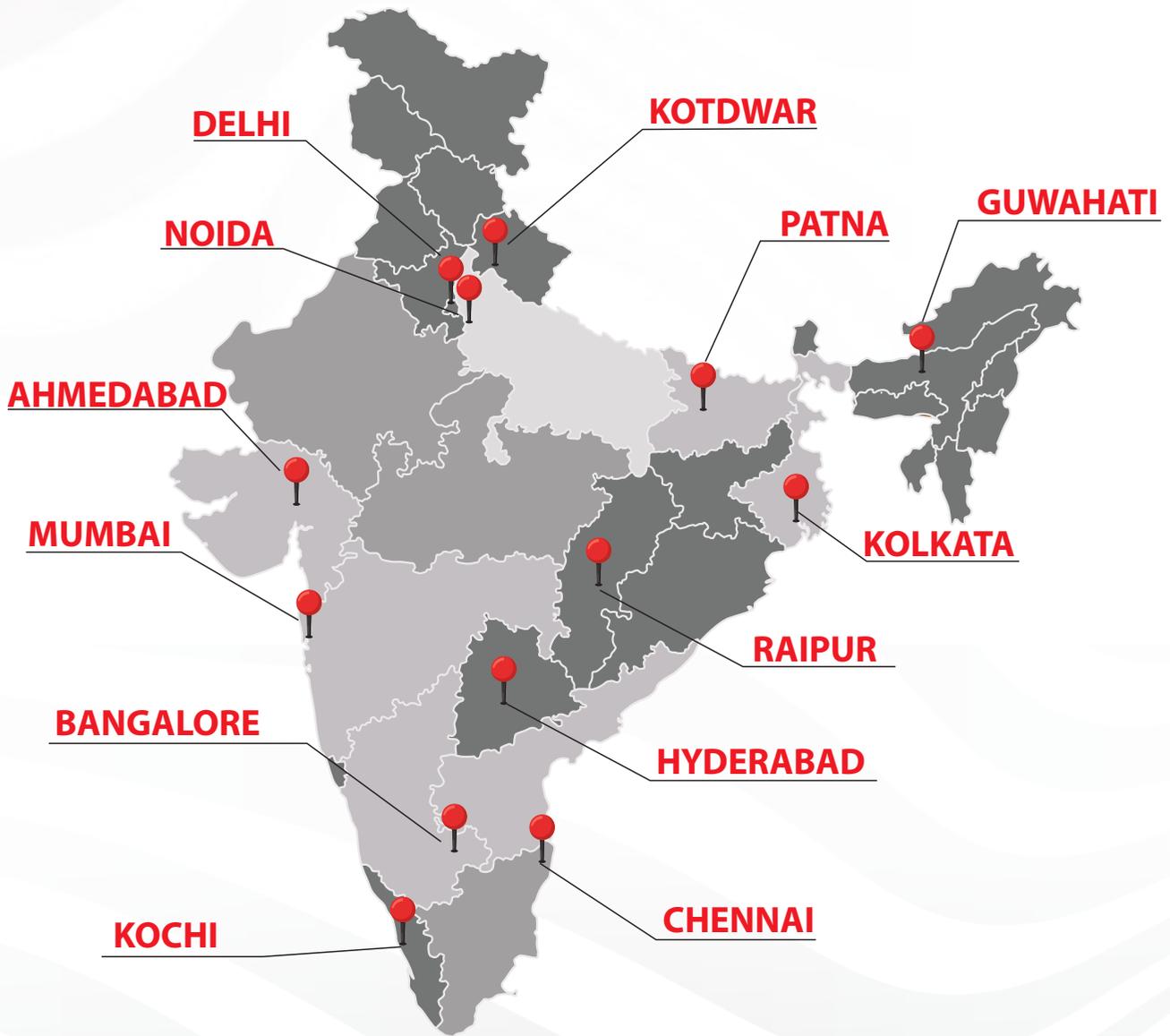- Water Softener to prevent scale and maintain heat-exchange efficiency.

QUALITY ASSURANCE & TESTING

- **Inward QA:** Fiber attenuation/geometry/PMD/proof tests raw-material mechanical & chemical checks.
- **Final QA:**
- **Optical:** Attenuation @1310/1550/1625 nm, PMD, CD (per ITU-T/IEC).
- **Mechanical:** Tensile, crush, bend, impact.
- **Environmental:** Temperature cycling, water penetration, UV (IEC 60794).Integrated warehouse testing for fast turnaround and full traceability.

OUR PRESENCE

OUR PRESENCE

DELHI

KOTDWAR

NOIDA

PATNA

GUWAHATI

AHMEDABAD

KOLKATA

MUMBAI

RAIPUR

BANGALORE

HYDERABAD

KOCHI

CHENNAI

Concept of One Stop Solution

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