

OPTIMAX 2010-NDT

Industrial X-Ray Film Processor

Quality, Features and Value



The OPTIMAX 2010-NDT is a fully automatic industrial processor, with a variable speed control that allows precise settings from 90 seconds to 10 minutes. The OPTIMAX 2010-NDT provides a state-of-the-art digital display for monitoring and control of developer temperature, dryer heat, replenishment, process time, diagnostic messages, and film volume.

The OPTIMAX 2010-NDT is manufactured by Protec in Germany in compliance with DIN ISO 9001:2000, IEC, TUV, CE, CSA, and UL quality standards. Protec is known world-wide for their simple, reliable, serviceable, and affordable x-ray film processors, now available for the NDT market.

Features & Benefits

- Space-saving size of 30" X 23" X 16.5" for table-top use
- Variable speed 90 seconds to 10 minutes
- Energy saving design limits run time to when film is actually being processed
- Water saving design limits water use to when film is actually being processed
- Chemical saving design limits chemical replenishment to when film is being fed into the processor
- Economical, adjustable automatic chemical replenishment
- Anti-oxidation and anti-crystallization programs
- Microprocessor controlled with 2 program memory
- Dual microsensor film feed switch
- Digital display and control for developer temperature, replenishment, process time, diagnostics, and film counter
- Top film feed and top return for convenience
- Quality polyurethane rollers for outstanding image quality
- 2 year warranty
- Meets ISO, IEC, CE, TUV, CSA & UL quality standards
- Made in Germany

Standard Equipment

- Comes complete with everything needed for tabletop processing
- Installation, Operating and Parts Manual
- Spare Parts Kit
- 6.6 gallon (25 liter) replenishment tanks with filtering replenishment straws
- Floating lid
- Water supply hose
- Tubing and hardware

Options

- 220V, 50/60Hz service for export
- Basic or deluxe processor stand
- Silver recovery bucket
- Air cleaner for processor exhaust
- Chemical mixer



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Minimum Darkroom Requirements

Electrical

- 115V, 50/60Hz, 12A Service (Operating Range 110-120V)
- 230V, 50/60Hz, 8.8A Service (Operating Range 220-240V)
- Energy use of 1.4kWh during processing and 0.12 kWh in standby mode.
- Dedicated line strongly recommended.
- Use of a multi-outlet adapter or extension cord will void the warranty.

Water

- Cold water only with recommended temperature between 41-86°F (5-30°C).
- Water connection of 3/4" with 29 - 145 psi.
- Minimum drain diameter of 2 inches (5 cm) at a maximum of 12 inches (30.5 cm) above the floor.
- Water consumption of 0.5 gal/min (1.9 liter/min) during processing in standard mode.
- Water consumption of 0.25 gal/min (0.95 l/min) during processing in water save mode.
- Water consumption of 0.0 gal/min (0.0 l/min) in standby mode.
- In-line water filter strongly recommended when water supply contains contaminants or particulate materials.
- Do not use copper drain pipe or fittings. Use cast iron or PVC.

Space

- Minimum counter/stand space of 19" (48 cm) wide by 23" (59 cm) deep required.
- Minimum counter clearance of 30" (77 cm) wide by 23" (59 cm) deep required.

Film Processing Capacity in Films Per Hour

Film Size		Speed Settings				
Inch	Metric	1.5 min.	3 min.	5 min.	8 min.	10 min.
4" X 4"	10 X 10cm	840	420	252	159	126 *
5" X 7"	13 X 18cm	448	224	134	82	66 **
10" X 12"	24 X 30cm	129	65	39	23	19
14" X 17"	35 X 43cm	75	37	22	13	11

* Calculations based upon 3 films run parallel at one time.
** Calculations based upon 2 films run parallel at one time.

Developer Immersion	25 sec.	49 sec.	82 sec.	131 sec.	164 sec.
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Your Authorized FI Sales, LLC Dealer



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PRODUCT SPECIFICATIONS

Film Size

4" x 4" (10 cm x 10 cm) min. to 14" (35 cm) X any length max.
Will accept roll film

Processing Time

Adjustable from 90 seconds to 10 minutes

Developer Temp

Digital display in °C or °F, adjustable from 82 - 99°F (28 - 37°C).

Replenishment

Rates adjustable from 150-1500 ml per 10 sq. ft. (ml/m²)
Level sensor in developer with overflow protection
Anti-oxidation cycle every hour (can be disabled)

Net Weight

110 lbs (50 kg) with solutions
77 lbs (35 kg) without solutions

Tank Capacity

1.3 gallons (5 liter) in each section: developer, fixer, water

Film Drying

Warm circulated air, thermostat regulated and adjustable to 158°F (70°C) maximum

Chemical Storage

6.6 gallon (25 L) tanks

Film & Chemistry

Use standard industrial x-ray film and chemistry formulated for automatic industrial x-ray film processors.

FI Sales is pleased to offer other Protec x-ray film processors should the OPTIMAX 2010-NDT not meet your needs.

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| • ECOMAX | World's most economical automatic processor |
| • OPTIMAX | 90 second basic model |
| • OPTIMAX 2010 | 90 second deluxe model |
| • COMPACT 2 | 60 second hi-cap model |