Olympus Epoch 600 Specs Provided by www.AAATesters.com

Olympus Epoch 600

The EPOCH 600 Digital Ultrasonic Flaw Detector combines Olympus' industry leading conventional flaw detection capabilities with the efficiency of a highly portable, intuitive instrument. The EPOCH 600 flaw detector's blend of efficient menus and direct access keys allows you to take advantage of the highest quality flaw detection platform with exceptional ease of use. The large, full VGA transflective display combined with the patent-pending digital high dynamic range receiver provides a stable, striking A-scan representation in any lighting condition. Available in two hardware configurations, the EPOCH 600 offers you the choice to adjust parameters with a knob or with a navigation area on the keypad. The EPOCH 600 is designed to meet the requirements of EN12668-1 and allows a full range of standard and optional flaw detection features. The rugged, ergonomic design allows use in nearly any inspection environment, while the flexible PerfectSquare[™] pulser and digital filtering capabilities can tackle nearly any application.

Key Features

- Designed to meet the requirements of EN12668-1
- ■■ PerfectSquare[™] tunable square wave pulser
- Digital high dynamic range receiver
- Eight digital filters for enhanced signal-to-noise ratio
- 2 kHz PRF for rapid scanning
- Knob or navigation pad adjustment configurations
- Large, full VGA sunlight readable display
- Long battery life, supporting lithium-ion or alkaline batteries
- ■■ Standard dynamic DAC/TVG and onboard DGS/AVG
- 2 GB MicroSD memory card for data transfers and storage
- ■■ USB On-The-Go (OTG) for PC communication
- ■■ Alarm and VGA outputs
- Optional analog output
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Epoch 600 Technical Specifications

Receiver

General

Overall dimensio (W x H x D)	ons 236 mm x 167 mm x 70 mm (9.3 in. x 6.57 in. x 2.76 in.)	Gain	0 to 110 dB
Weight	1.68 kg (3.72 lb), including lithium-ion battery	Maximum input signal	20 V р-р
Languages	English, Spanish, French, German, Japanese, Chinese, Portuguese	Receiver input impedance	$400 \ \Omega \pm 5\%$
Transducer connections	BNC or Number 1 LEMO	Receiver bandwidth	0.2 MHz to 26.5 MHz at –3 dB
Data storage	50,000 IDs onboard, removable 2 GB MicroSD card (standard)	Digital filter settings	Eight digital filter sets standard (0.2-10 MHz, 2. 21.5 MHz, 8.0-26.5 MHz,
Battery type/life	 Single lithium-ion rechargeable standard/12 h to 13 h (lithium-ion), 3 h (alkaline) 		0.5-4 MHz, 0.2-1.2 MHz, 1.5-8.5 MHz, 5-15 MHz DC-10 MHz)
Power requirem	ents AC Mains: 100 VAC to120 VAC, 200 VAC to240 VAC, 50 Hz to 60 Hz	Rectification	Full-wave, Positive Half-wave, Negative Half- wave, RF
Display type	Full VGA (640 x 480 pixels) transflective color LCD, 60 Hz update rate	System linearity	Horizontal : ± 0.2% FSW
Display dimensio (W x H, Diag.)	ons 117 mm x 89 mm, 146 mm (4.62 in. x 3.49 in., 5.76 in.)	Vertical linearity	0.25% FSH, amplifier accuracy ± 1dB
Pulser		Reject	0 to 80% FSH with Visual Warning
Pulser	Tunable Square Wave	Amplitude measurement	0 to 110% full screen height with 0.25% resolution
PRF	10 Hz to 2000 Hz in 10 Hz increments	Measurement rate	Equivalent to PRF in all modes
Energy settings	100 V, 200 V, 300 V or 400 V	Measurements	
Pulse width	Adjustable from 25 ns to 5,000 ns (0.1 MHz) with PerfectSquare™ technology	Measurement display locations	5 locations available (manual or auto selection)
Damping	50, 100, 200, 400 Ω	Gate 1	Thickness, Soundpath, Projection, Depth, Amplitude, Time-Of-Flight,
Gates			Min./Max. Depth, Min./Max. Amplitude
Measurement ga	ates 2 fully independent gates for amplitude and TOF measurements	Gate 2	Same as Gate 1
Gate start	Variable over entire displayed range	Echo-to-Echo	Same as Gate 2-Gate 1
Gate width	Variable from Gate Start to end of displayed range	Other measurements	Overshoot (dB) value for DGS/AVG, ERS (equivalent reflector size) for
Gate height	Variable from 2 to 95% full screen height		DGS/AVG, AWS D1.1,D1.5 rating (D), Reject Value
Alarms	Positive and Negative Threshold, Minimum Depth (Gate 1 and Gate 2)	DAC.TVG	Standard
		DAC points	Up to 50 points, 110 dB dynamic range
		Special DAC modes	Custom DAC (up to 6 curves)

Curved surface

connection

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Standard OD or Bar correction for Angle Beam

measurements