IMPAC SERIES 6-TV ADVANCED

Stationary, digital pyrometers for non-contact temperature measurement with video sighting for optical alignment to the measuring object.

The Impac® Series 6-TV Advanced pyrometers are digital, compact, and fast pyrometers for non-contact temperature measurement. With a color camera module, the optical alignment to the measuring object can be achieved with a monitor or using the InfraWin software in conjunction with an external video grabber. The video output of the pyrometers can be directly connected to the video input of the monitor or video grabber. The inserted circular target marker allows an exact alignment to the measuring object.

PRODUCT HIGHLIGHTS

- Integrated color camera module for sighting
- Optical alignment to the measuring object using a monitor or via InfraWin software with an external video grabber
- Video output galvanically isolated from power supply, analog output, and digital interface
- Display image details including: current temperature reading, date/time, user text, one selectable parameter

TYPICAL APPLICATIONS

- Metal processing
- Steel making
- Glass industry
- Cement industry
- Solar industry

AT A GLANCE

Available Models

IS 6-TV Advanced
IGA 6-TV Advanced
IGA 6/23-TV Advanced
ISR 6-TV Advanced
IGAR 6-TV Advanced

Video Signal

FBAS-Signal approximately 1 VSS @ 75 Ohms, PAL (B), 50 Hz, CCIR656

Field of View

About 11.6% x 8.4% of the adjusted measuring distance

Resolution

768 x 576 pixel video chip
768 x 520 pixel on screen

TECHNICAL DATA[1]

Video Signal	FBAS-Signal approximately 1 VSS @ 75 Ohms, PAL (B), 50 Hz, CCIR656
Date/Time	Real time clock with about 14 days buffer (GoldCap)
Connection of Video Signal	Separate triaxial socket to support double shielded signal transmission (at pyrometer), CINCH or BNC connector (on user side)
Operating Ambient Temperature	0 to 60°C on the housing
Field of View	About 11.6% x 8.4% of the adjusted measuring distance
Superimposed Text Elements	Circular target marker, user text, time, date, measured temperature
	Additional: device temperature or distance or serial number or intensity (only ISR)
Resolution	768 x 576 pixel video chip
	768 x 520 pixel displayed on screen
Brightness control	Automatic or manual (via software)

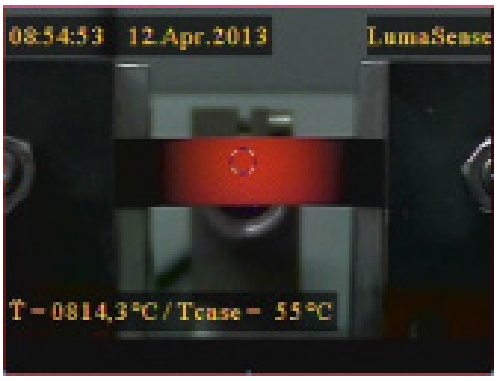
1 Different from IS 6 Advanced, IGA 6 Advanced, IGA 6/23 Advanced, ISR 6 Advanced, and IGAR 6 Advanced

OPTICS

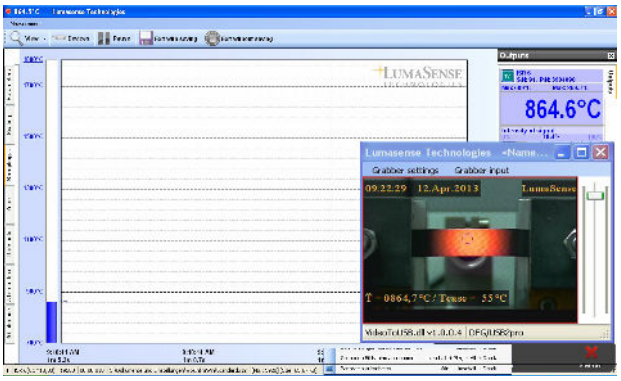
The Series 6 Pyrometers can be manually adjusted at all distances between 210 mm and 5000 mm and the focus distance of the visual camera equals the focus distance of the infrared detector. The size of the target marking circle displayed in the video image equals the spot size of the pyrometer at the set measuring distance. For spot sizes, please refer to the datasheet for the associated Series 6 base instrument (IS 6 Advanced, IGA 6 Advanced, IGA 6/23 Advanced, ISR 6 Advanced, or IGAR 6 Advanced).

INFRAWIN OVERVIEW

InfraWin is easy-to-use measurement and evaluation software for remote configuration of stationary, digital IMPAC brand pyrometers.



Example video image



InfraWin with integrated video image

REFERENCE NUMBERS

Type	Temperature Range	Reference Number
IS 6-TV Advanced (PAL / RS485)	600 to 1800°C (1112 to 3272°F) (MB 18)	3 914 570
	600 to 3000°C (1112 to 5432°F) (MB 30)	3 914 530
IGA 6-TV Advanced (PAL / RS485)	250 to 1800°C (482 to 3272°F) (MB 18)	3 914 070
	250 to 2500°C (482 to 4532°F) (MB 25)	3 914 030
IGA 6-TV Advanced (PAL / RS232)	250 to 1800°C (482 to 3272°F) (MB 18)	3 914 150
	250 to 2500°C (482 to 4532°F) (MB 25)	3 914 110
IGA 6/23-TV Advanced (PAL / RS485)	50 to 1000°C (122 to 1832°F) (MB 10)	3 914 230
	75 to 1300°C (167 to 2372°F) (MB 13)	3 914 270
	150 to 1800°C (302 to 3272°F) (MB 18)	3 914 310
ISR 6-TV Advanced (PAL / RS485)	600 to 1400°C (1112 to 2552°F) (MB 14)	3 904 030
	700 to 1800°C (1292 to 3272°F) (MB 18)	3 904 090
	800 to 2500°C (1472 to 4532°F) (MB 25)	3 904 160
	1000 to 3000°C (1832 to 5432°F) (MB 30)	3 904 230
IGAR 6-TV Advanced (PAL / RS485)	100 to 2000°C (212 to 3632°F) (MB 20)	3 914 720

Scope of Delivery

Pyrometer, PC software InfraWin for adjustment and evaluation, Works Certificate, and manual.

Ordering Note

Connection and video cables are not included in the scope of delivery and must be ordered separately.

ACCESSORIES

PN	Description
3 920 600	5 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 610	10 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 620	15 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 630	20 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 640	25 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 650	30 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 660	40 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 670	45 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 680	60 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 920 690	100 m Video Cable f. Series 6, BNC connector, adapter Cinch[1]
3 826 740	Passive Video Baluns with BNC connectors for transmitting video signals over standard inexpensive patch cable (eg CAT5 cable) minimum cable length: 300 m with color video.
3 826 730	Video grabber with USB cable

1 All video cables include an adapter BNC-socket to RCA male (CINCH).

ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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