

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

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

(Addendum to Datasheets IS 6 Advanced, IGA 6 Advanced, IGA 6/23 Advanced, and ISR 6 Advanced)

- 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



The 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 software InfraWin 5 in conjunction with an external video grabber (see accessories).

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.

TECHNICAL DATA

(different from IS 6 Advanced / IGA 6 Advanced / IGA 6/23 Advanced/ ISR 6 Advanced)

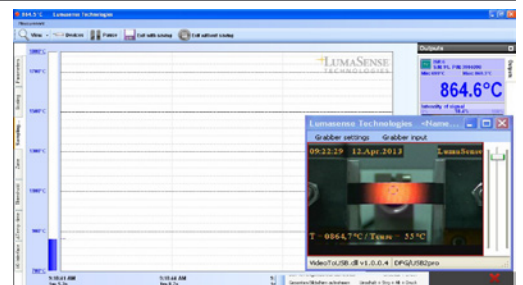
Video-Signal:	FBAS-Signal approximately 1 VSS at 75 Ohms, PAL (B), 50 Hz, CCIR656
Date/Time:	Real time clock with about 14 days buffer (GoldCap)
Connection of Video-Signal:	Separate triaxial socket to support double shielded signal transmission (at pyrometer), CINCH or BNC connector (on user side)
Operating ambient temperature:	0 to 60 °C on the housing
Field of view:	About 5.8% x 4.2% 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)

TYPICAL APPLICATIONS

- Metal Processing
- Steel Making
- Glass Industry
- Cement Industry
- Solar Industry



Example video image



InfraWin 5 with integrated video image

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, or ISR 6 Advanced).

Reference Numbers

Type	Temperature Range	Reference Number	Scope of delivery: Pyrometer with 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.
IS 6-TV Advanced (PAL / RS485)	600 to 1800 °C (MB 18) 600 to 3000 °C (MB 30)	3 914 570 3 914 530	
IGA 6-TV Advanced (PAL / RS485)	250 to 1800 °C (MB 18) 250 to 2500 °C (MB 25)	3 914 070 3 914 030	
IGA 6/23-TV Advanced (PAL / RS485)	50 to 1000 °C (MB 10) 75 to 1300 °C (MB 13) 150 to 1800 °C (MB 18)	3 914 230 3 914 270 3 914 310	
ISR 6-TV Advanced (PAL / RS485)	600 to 1400 °C (MB 14) 700 to 1800 °C (MB 18) 800 to 2500 °C (MB 25) 1000 to 3000 °C (MB 30)	3 904 030 3 904 090 3 904 160 3 904 230	

Accessories - Video Related

3 920 600	Video cable BNC, 5 m long*	3 920 670	Video cable BNC, 45 m long*
3 920 610	Video cable BNC, 10 m long*	3 920 680	Video cable BNC, 60 m long*
3 920 620	Video cable BNC, 15 m long*	3 920 690	Video cable BNC, 100 m long*
3 920 630	Video cable BNC, 20 m long*	3 826 740	Passive Video Baluns with BNC connectors for transmitting video signals over standard inexpensive patch cable (eg CAT5 cable). Maximum cable length: 300 m with color video.
3 920 640	Video cable BNC, 25 m long*	3 826 730	Video grabber (converts analog TV to USB)
3 920 650	Video cable BNC, 30 m long*		
3 920 660	Video cable BNC, 40 m long*		

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

Accessories - Other

3 820 330	Connection cable, 5 m, straight connector**	3 826 510	PI 6000: PID programmable controller
3 820 500	Connection cable, 10 m, straight connector**	3 890 640	DA 4000-N: LED digital display to be built into the switchboard
3 820 510	Connection cable, 15 m, straight connector**	3 890 650	DA 4000: like the DA 4000-N, but additionally with 2 limit switches
3 820 810	Connection cable, 20 m, straight connector**	3 890 570	DA 6000-N digital display, to allow adjustment of Pyrometer through RS485 interface
3 820 820	Connection cable, 25 m, straight connector**	3 890 530	DA 6000: like the DA 6000-N, but with analog input and 2 limit switches for the RS485 interface.
3 820 520	Connection cable, 30 m, straight connector**	3 890 630	LD24-UTP; large digital indicator, 57 mm height of digits
3 820 340	Connection cable, 5 m, 90° connector**	3 834 210	Adjustable mounting support
3 820 530	Connection cable, 10 m, 90° connector**	3 846 260	Mounting support
3 820 540	Connection cable, 15 m, 90° connector**	3 846 290	Mounting support with fused silica window
3 820 830	Connection cable, 20 m, 90° connector**	3 835 160	Air purge unit, aluminium
3 820 840	Connection cable, 25 m, 90° connector**	3 835 590	90° mirror for Series 5, quartz glass window
3 820 550	Connection cable, 30 m, 90° connector**	3 837 530	Water cooling jacket (heavy duty) with integrated air purge unit for Series 6 with video
3 852 290	Power supply NG DC for DIN rail mounting; 100 to 240 V AC ⇒ 24 V DC, 1 A	3 846 590	Vacuum flange KF16 with quartz glass window
3 852 550	Power supply NG 2D for DIN rail mounting; 85 to 265 V AC ⇒ 24 V DC, 600 mA with 2 settable limit switches		
3 826 720	USB to RS485 adapter cable, 1.8 m long		

**All connection cables include a short adapter cable with a 9-pin SUB-D connector. This connector may be used in combination with the RS485 to USB adapter.

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