

DCS 6000 Digital RA 6013 Conference System RA 6025 Digital Infrared Digital Infrared Radiator



The RA 6000 series of Digital Infrared Radiators are used for powerful distribution of infra-red digital signals throughout the conference venue, enabling delegates to listen to the interpreted languages by means of personal receivers.

The RA 60xx transmits up to 32 channels in superb sound quality by means of invisible IR light.

The RA 60xx models are used to provide reliable infra-red coverage from small meeting rooms up to very large conference halls.

The RA 60xx models feature:

- RA 6013 covers up to 1000 m² (one carrier, 4 standard quality channels)
- RA 6025 covers up to 2000 m² (one carrier, 4 standard quality channels)
- Power output selection for efficiency and economy
- Universal mains power facility allows use worldwide
- No fan - cooled by convection - resulting in silent operation
- LED indicators for radiator status checking
- Communication between radiator and transmitter for easy checking by the operator
- Automatic switching when transmitter is switched on and off
- Automatic gain control ensures the IR-LEDs (IR Light Emitting Diodes) function with maximum efficiency
- Automatic cable equalization ensures maximum transmission efficiency with different quality of cables
- Automatic cable termination simplifies installation
- Temperature protection circuitry automatically switches radiator from full- to half-power if the temperature becomes too high
- Brackets for mounting on ceiling and floor stand included, which simplifies installation
- Adjustable radiator angle ensures maximum coverage
- IR-LED's protected by a cover plate, making the units easy to maintain and clean
- Attractive and stylish design

How to order

Digital Infrared:	Order no:	Digital Infrared:	Order no:
DT 6008 Digital Transmitter	13 11 05858	DR 6004 Digital Receiver	14 10 58731
DT 6032 Digital Transmitter	13 11 05860	DR 6008 Digital Receiver	14 10 58741
RA 6013 Infrared Radiator	14 09 05494	DR 6032 Digital Receiver	14 10 58771
RA 6025 Infrared Radiator	14 09 05495		

DCS 6000 Digital Conference System Digital Infrared

RA 6013
RA 6025



Specifications

Connectors:

HF input and output connectors (2 x BNC) for connection to transmitter and loop-through to other radiators

Switches:

Power reduction switch to reduce the output of the radiator to half-power

Two switches to set signal delay to compensate for differences in cable lengths between transmitter and radiators

Mounting:

Suspension bracket for direct ceiling mounting (included)

Mounting plates for floor stands with M10 and 1/2"

Whitworth thread

Wall Mounting Bracket can be used for fixing radiator to wall surfaces

Dimensions:

(H x W x D):

RA 6013 without bracket: 200 x 500 x 175mm

RA 6025 without bracket: 300 x 500 x 175mm

Radiator angle for floor-stand mounting: 0, 15 and 30°

For wall/ceiling mounting 0, 15, 30, 45, 60, 75 and 90°

Weight :

RA 6013 without bracket: 6.8 kg

RA 6013 with bracket: 7.6 kg

RA 6025 without bracket: 9.5 kg

RA 6025 with bracket: 10.3 kg

Transmission Characteristics:

IR transmission wavelength: 870 nm

Modulation frequency :

Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603 part 7
Carriers 6 and 7; up to 8 MHz

Protocol and modulation technique :

DQPSK, according to IEC 61603 part 7

Technical Data:

Number of IR-LED's: 260 (RA 6013)
480 (RA 6025)

Total IR output at 20 °C - room temp.:

8 Wrms 16 Wpp (RA 6013)

16 Wrms 32 Wpp (RA 6025)

Total optical peak intensity:

9 W/sr (RA 6013)

18 W/sr (RA 6025)

Angle of half intensity:

+/- 22°

HF input:

Nominal 1Vpp, minimal 10 mVpp

Mains voltage:

90 to 260 V, 50 to 60 Hz

Power Consumption:

RA 6013: 100 W (standby 8 W)

RA 6025: 180 W (standby 10 W)

LED's:

Two yellow LED's:

One on each radiator panel to indicate that the panel is switched on and is receiving carrier waves from the transmitter

Two red LED's:

One on each radiator panel to indicate standby mode

Red and yellow LED's simultaneously illuminated to indicate malfunctioning

Red LED flashing and yellow LED's to indicate the radiator panel is in temperature protection mode

Accessories

(not supplied with the radiator):

Wall mounting bracket

Connection cables (75 ohm)

The DIS Digital Infrared System fully complies with the IEC 61603-PART7, which is the industry standard for digital infrared transmission in the 2 to 6 MHz frequency band.

Data subject to change without further notice