



# Industrial Television Limited

Excellence in Television Technology

[www.industrial-tv.com](http://www.industrial-tv.com)

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## OFT-9 FURNACE VIEWING TELEVISION SYSTEM

The OFT-9 is a special system designed specifically for the applications where it is necessary to be able to vary the penetration of the camera in the furnace; for instance, to observe the operation of both over- and under-firing burners from a single insertion point in the furnace roof. In this instance, the camera operates like an inverted periscope and is lowered between the transfer mechanism structure to see below the stock level.

The water cooled and air purged camera housing is stainless steel, with an overall diameter of less than 50mm; depending on application, the length can be in excess of 4 metres. The housing is normally fitted to an insertion port in the furnace roof, and lowered to a suitable position where it can be locked in place. Separate locking is provided for vertical and rotational movement, so the unit can be 'panned' round whilst held at a fixed insertion level.

Shorter versions can be inserted horizontally, in this configuration the bending forces on the housing limit the overall length.

One concept of this design is that it is easily moved to different insertion points on the furnace, if this is large as in the case, for example, of a plate-connections to the camera housing made and disconnected whilst the The insertion point hardware is unit remains permanently fixed at with the internal mechanism of the



Interface with the cooling and matching quick- release fittings,

A master electrical junction box is camera power supplies, coolant monitoring facilities, as well as local remote signalling. High-efficiency location, allowing normal shop air

Pictures are displayed on an position, but may also be viewed A portable monitor is used for this

The system supply includes all items described above, including both monitors. Additional insertion point hardware is required if more than one location needs to be monitored.

As the OFT-9 systems are built to specific requirements, Industrial Television Ltd should be contacted at an early stage to ensure users obtain the optimum performance for their application.

electrical services is provided at each point by which are permanently fixed.

located at a convenient point and houses flow, air pressure and camera temperature alarm indications and volt-free contacts for filters for the air supply are also fitted at this supplies to be used for the cooling air.

industrial video monitor at the operator's locally to the camera for alignment purposes. purpose.