

# A proposal Industrial TV and Wireless Transmitter

**The introduction at factories and worksites of appropriate equipment for the remote monitoring of potentially dangerous work situations improves work efficiency and contributes to safety.**

**An ITV system for performing such remote monitoring requires equipment that is sturdy, and that can be used at any type of worksite.**

**HIBINO DATA-COM CO.,LTD**

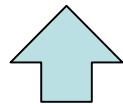
**<http://www.hibino-data.com>**



## Example of worksite-use, small-sized camera system application for improving work efficiency



FKC-80



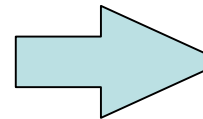
FKC-50



FKC-1000

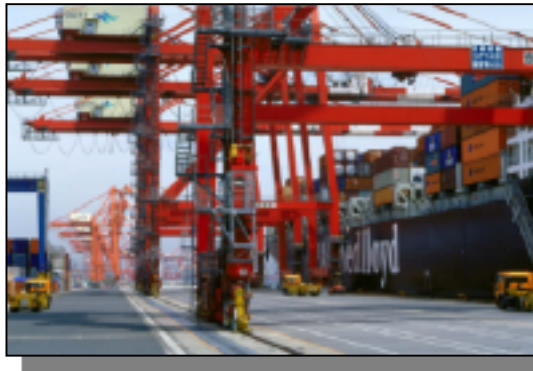


Micro Camera





**This is a camera system that was developed within actual worksites. It is a superior system in terms of its earthquake-resistance and water-resistance characteristics. It is also lightweight and small-sized, enabling simple and easy installation. This remote worksite-use ITV camera reproduces, in real time, actual images from worksites.**

## FKC Series of small-sized, earthquake-resistant cameras: Installation example

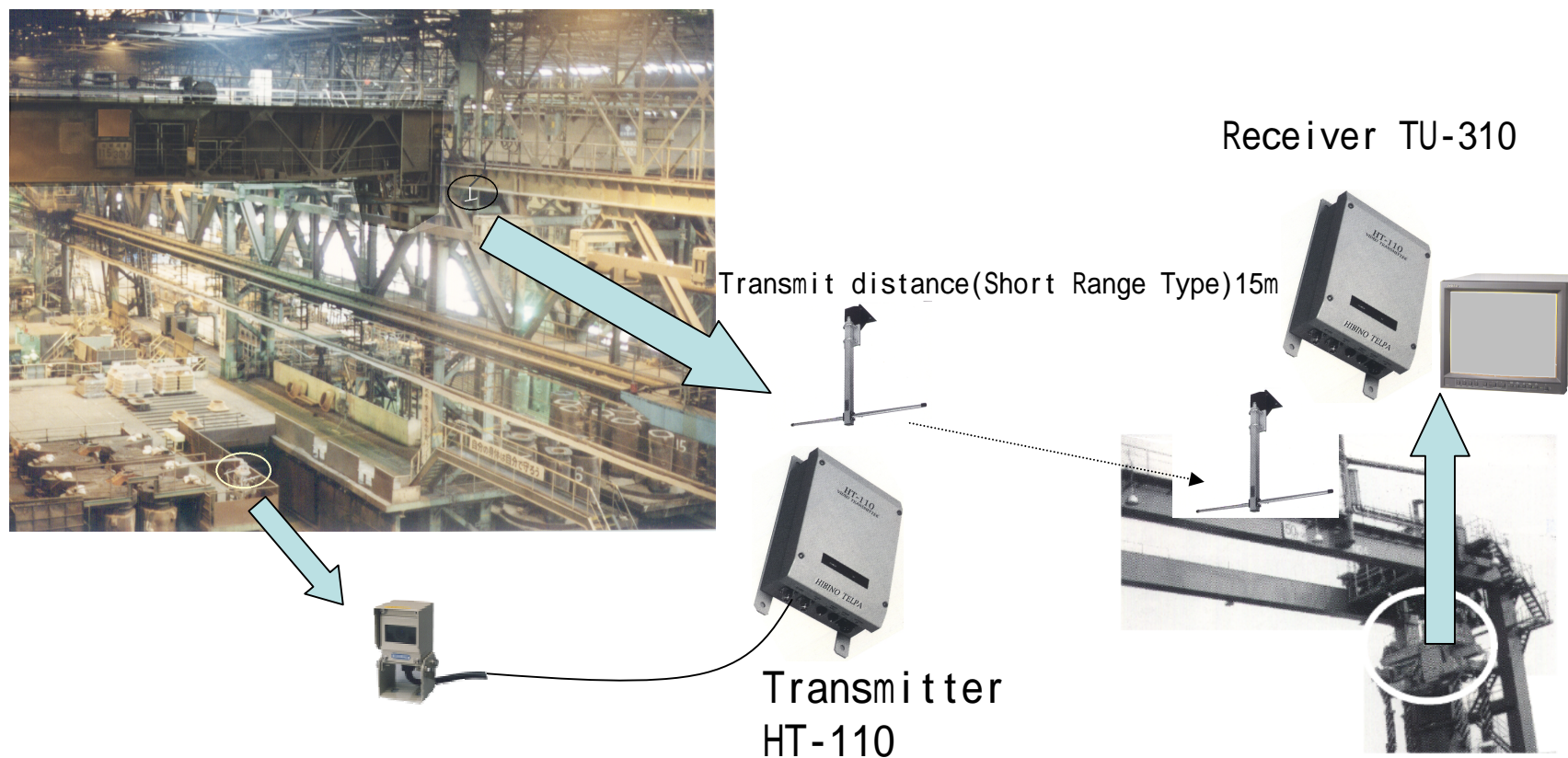


Usual camera System and comparison with a FKC camera

Normal	New FKC
	

The high picture-quality CCD color camera serves as the “eye on the worksite,” and is currently employed for a variety of uses. This color CCD camera is especially appropriate for severe environments where such things as earthquake-resistance, water-resistance, salt-damage resistance, and the like are essential. Since this camera is able to monitor from the operation compartment [room] especially crane movements of container cranes, the FKC camera serves as an indispensable part of work safety. For the FKC camera, pursuit was made of even more superior characteristics and an even smaller size, and the result is a major reduction in installation work. The FKC camera is currently used as a standard product at Mitsubishi Heavy Industries, Sumitomo Heavy Industries, and other leading heavy-industry manufacturers.

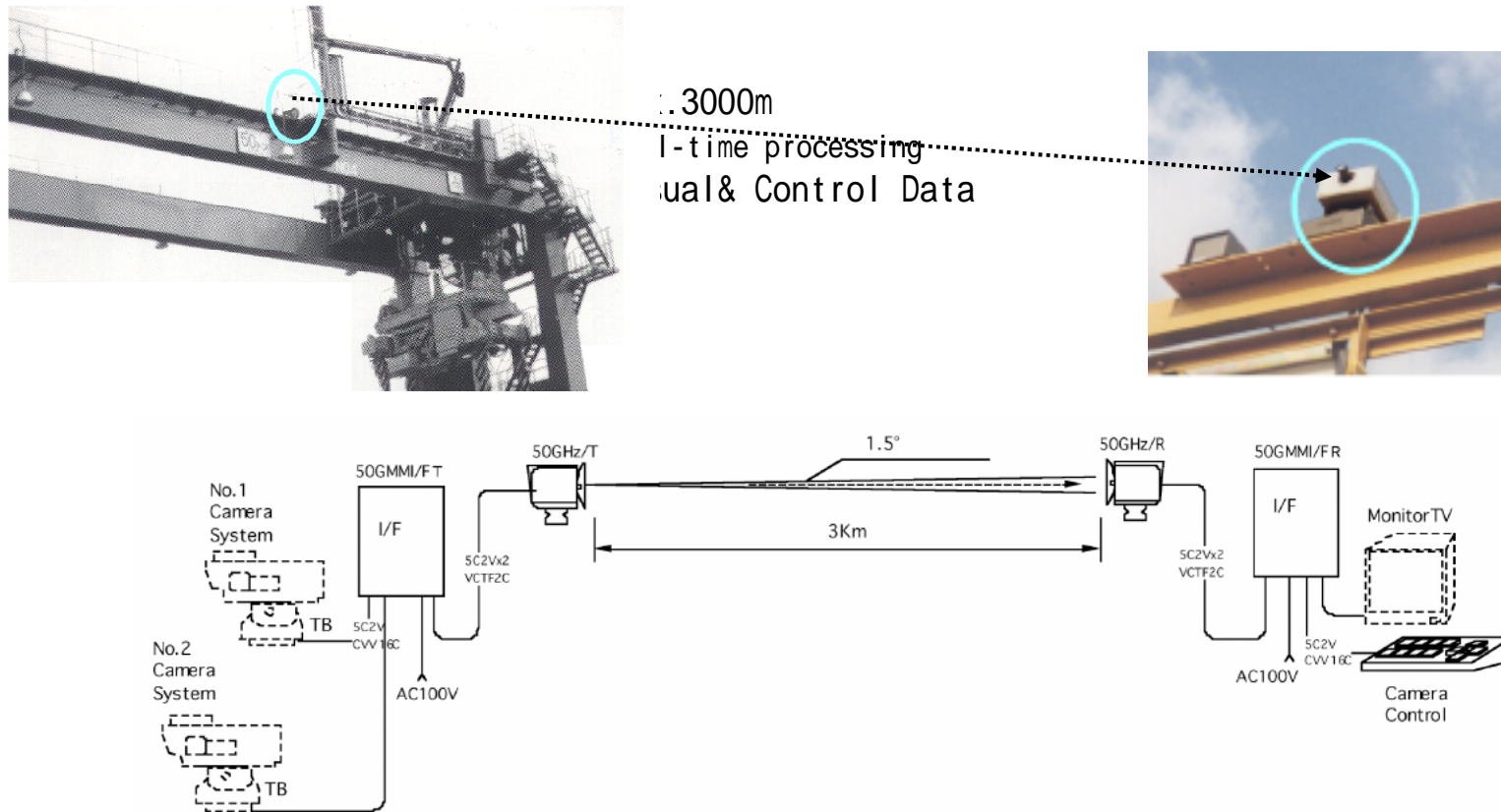
## Example of wireless-type image transfer system application



**This is a system for monitoring, with an ITV camera and from within the crane operation compartment [room], worksites where above-ground crane lifting work is being performed.**



## Wireless-type image (Long Distance Type)



Wharf-side container crane, tire crane, etc.

Linear movement-type system that uses 50 GMM wireless for communications with the above-ground side.  
Excellent capabilities of concentrated monitoring and surveillance over a broad-ranging area.

## Hibino Data-Com      The main results

ITEM	Contents	Results
ITV Keep watch on crane work Distant] place surveillance	Wireless System	Self-Defense Force Nippon Steel/Kimitu Nippon Steel/Ngoya Nippon Steel/Yahata Kobe Steel/Kakogawa Sumitomo Steel/Kasima Kwasaki Steel/Chiba Kawaski Steel/Mizusima Kumagaigumi Kasima construction Mitubishi Material Taisei construction Fujita construction
ITV FKC camera	OEM          Results ( Overseas )	Kobelco Mitubisi Heavy Industrial Sumitomo Heavy Industrial IHI Komatu   H I T /SHI Romania Container Yard /MHI Mindanao/MHI KCTA Bussan /MHI