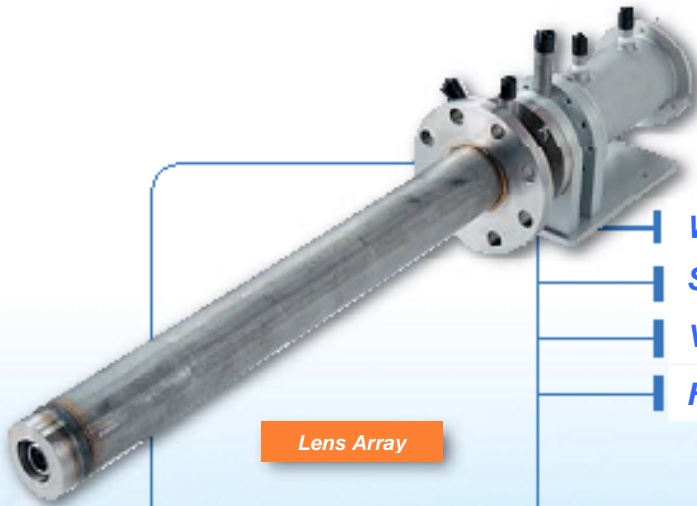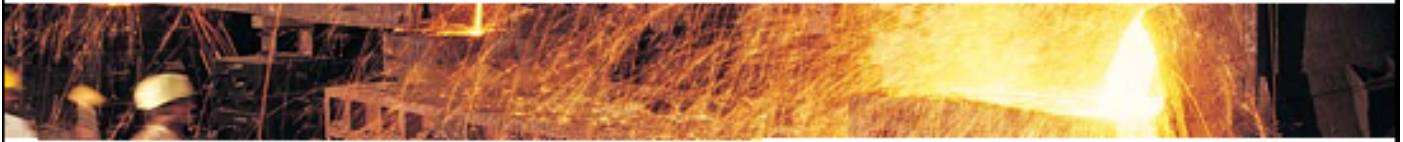# NEW ThermoPix (*CPA-R Series*)

Hi-Temp *Video Camera / Pyrometer*
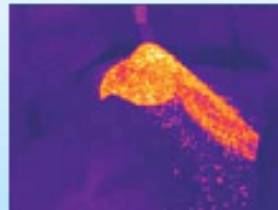
Lens Array

Processor

- **Wide Temperature Range**
- **Simple Configuration**
- **Video & Area Temperature Functions**
- **Hi-Temp Optical Lens Array System**

This system utilizes a CCD camera, which has sensitivity at 1.0μm and Image Processing Unit that provides an image and converts video signal from the camera into temperature information.

The special high temperature optics lens array system can be inserted through a small insertion port on many types of furnaces.

The Image Processing Unit has an 8.3" LCD touch panel that displays wide-angle image and temperature information. It also provides the capability of up to 40 points of Contact Inputs/Outputs as well as 32 points of Analog Outputs through an external I/O unit.

Model

• Lens Array and Camera Unit

C P A - R ☐☐ S ☐☐ - ☐ N ☐

Lens Type
- 00 : 100º Lens
- 60 : 60º Lens
- 45 : 45º Lens

Array Length
- 04 : 360mm
- 05 : 500mm
- 07 : 680mm
- 09 : 900mm
- 11 : 1100mm

Cooling System
- W : Water & Air Cooling
- A : Air Cooling Only

Monitoring System
- N : Using Processing Unit
- C : Video Signal Out

• Image Processing Unit C P G - G M P R	• Power Supply Box C C Z - Z R P
• Custom Cable C P Y - Z R C ☐☐ (5m, 10m and 25m are available)	• Video Input Cable C P Y - Z R B ☐ (☐•••• 1,2 or 3)
	• Video Input Box C P Y - Z R X

Specifications

• Lens Array and Camera Unit

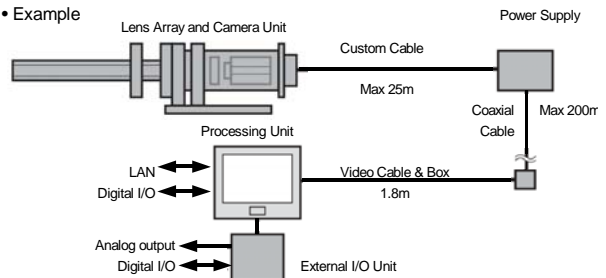|	
Viewable Angle	H96" x V70" (100º Lens)
Wavelength	0.8 to 1.0μm
Temp Range	700º to 2500ºC (Assignable Span:200º to 500ºC)
Monitoring Method	Standard - Monitoring on Output - Provides Analog Color signal
Accuracy	±1% at Full Scale (Black Body)

• Image Processing Unit

Camera Control	Up to 3 Cameras	
Display	8.4" Color LCD (Touch Panel)	
External Input/Output	Contact Output	Max 40 points (w/ Optional I/O unit)
	Contact Input	Max 40 points (w/ Optional I/O unit)
	Analog Output	Max 32 points (w/ Optional I/O unit)
Analyzing Function	Spot	16 spots
	Line	32 lines
	Area	32 areas
	Filters	Binalize/Pixel/Edge
Operational Condition	Temperature	0 to 45ºC
	Humidity	20 to 85% RH (Non Condensation)
Protective Structure	IP65 Compliant (Front Panel)	

• External I/O Unit (Optional)

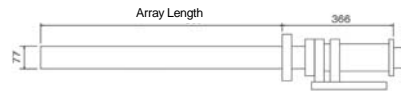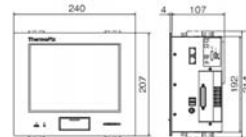|	
AC/DC Power Supply Unit	100 - 120V AC
I/O Controller Module	For connecting Processing Unit and I/O Module
Digital I/O Module	8 In/8 Out per Module, Up to 4 Modules
Analog Output Module	4 Outs per Module, Up to 8 Modules

Configuration

• Example

Lens Array and Camera Unit
Power Supply
Custom Cable
Max 25m
Processing Unit
Coaxial Cable Max 200m
LAN
Digital I/O
Video Cable & Box 1.8m
Analog output
Digital I/O
External I/O Unit

Configuration

• Lens Array and Camera unit

Array Length 366
77

• Processing unit
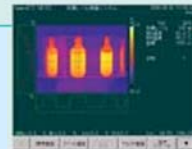

240 4 107

Utilities

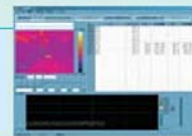|	
Purge Air :	Instrument Air
Seal Air :	Instrument Air
Cooling Water :	Industrial Clean Water

Software

Display/Setup Software (offline use)
CPY-ZFP011

This software is to display thermal image data that has been saved on the processing unit. The data can be transferred from the processing unit via USB memory stick. The interface and appearance on the display are the same as the processing unit, therefore you can also change/manage Settings File and System Setup.

Data Logging/Analysing Software
CPY-ZFP002

This package software is to support large amount of data logging and analysis via LAN connection.