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CAMERAS  
& VISUALIZATION



# 4K 3-Chip UHD Camera K4000

300-001-840

# 4K



HYS LAP ENT URO SPINE

# CAMERA

### Features:

- 4K UHD resolution with 3-chip technology
- Image algorithm enhancement of color and structure
- 4K video recording
- 4K image saving
- Camera head with 4 programmable buttons
- Boost function
- Fog reduction
- Freeze function
- 2.5x digital zoom
- 10 USER mode configurations
- Multilingual on screen menu
- SDI 4K Output
- Text generator (optional with keyboard)

### DELIVERY CONTAINS:

- Main Unit (300-001-840)
- Camera head (300-001-841)
- HDMI cable
- USB Pen Drive
- Mains cable
- Operating manual

### Technical data

|                   |                         |
|-------------------|-------------------------|
| Line voltage      | 100-240 VAC             |
| Power consumption | 60VA                    |
| Image sensor      | 3 MOS                   |
| Resolution        | 3840 x 2160 pixels (4K) |
| Index ratio       | 16:9                    |
| N/N ratio         | 54db                    |

### Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.

|               |   |
|---------------|---|
| Video outputs | 1x HDMI 4K<br>1x HDMI FullHD<br>1x SDI 4K<br>1x SDI FullHD  |
| Dimensions    | Control unit: 355 x 103 x 350mm (WxHxD)<br>Weight control unit: 6.2kg<br>Weight camera head: 145g |



# 3 CHIP HD-CAMERA F4

300-001-804

PURE NATURAL COLORS 



**HYS LAP ENT URO SPINE**

### Features:

- Full HD camera with 3-chip MOS technology
- Pure Natural Colors technology
- Full HD video recording
- Full HD image saving
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- Different digital video outputs
- Text generator (optional with keyboard)

### DELIVERY CONTAINS:

- Main Unit (300-001-804)
- Camera head (300-001-802)
- YPbPr/RGB cable • 2x BNC cable • Jack Cable
- HDMI - DVI cable • HDMI cable • S-Video cable
- USB Pen Drive • Mains cable • Operating manual

### Technical data

|                  |                             |
|------------------|-----------------------------|
| Line voltage     | 100-240 VAC                 |
| Power input      | 20W                         |
| Image sensor     | 3 MOS                       |
| Resolution       | 1920 x 1080 pixels (FullHD) |
| Image resolution | >1000 TV lines, horizontal  |
| Index ratio      | 16:9                        |
| Min. sensitivity | < 3lx (1/1.4)               |

### Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.

# CAMERA

### Video outputs

|         |   |
|---------|---|
| Digital | 2 x HD SDI<br>1x HDMI / DVI 2x CVBS                         |
| Analog  | 1 x YPbPr / RGB<br>1 x Y/C (Pal/NTSC)<br>1x CVBS (Pal/NTSC) |

Shutter speed 1/50 (1/60) to 1/100.000sec

Dimensions Control unit: 380 x 120 x 360mm (WxHxD)  
Weight control unit: 11kg  
Weight camera head: 145g



# HD-Camera F3 - High End

300-001-800

PURE NATURAL COLORS 



**HYS LAP ENT URO SPINE**

### Features:

- Full HD camera with 3-chip MOS technology
- Pure Natural Color technology
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- Different digital video outputs
- Text generator (optional with keyboard)

### DELIVERY CONTAINS:

- Main Unit (300-001-800)
- Camera head (300-001-802)
- YPbPr/RGB cable • 2x BNC cable • Jack Cable
- HDMI - DVI cable • HDMI cable • S-Video cable
- Mains cable • Operating manual

### Technical data

|                  |                             |
|------------------|-----------------------------|
| Line voltage     | 100-240 VAC                 |
| Power input      | 20W                         |
| Image sensor     | 3 - Chip                    |
| Resolution       | 1920 x 1080 pixels (FullHD) |
| Image resolution | >1000 TV lines, horizontal  |
| Index ratio      | 16:9                        |
| Min. sensitivity | < 3lx (1/1.4)               |

### Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.

|               |  |
|---------------|--|
| Video outputs | 1 x HDMI / DVI<br>1 x YPbPr (Component)<br>1 x Y/C (Pal/NTSC)<br>1 x CVBS (Pal/NTSC)             |
| Shutter speed | 1/50 (1/60) to 1/100.000sec  |
| Dimensions    | Control unit: 380 x 120 x 360mm (WxHxD)<br>Weight control unit: 11kg<br>Weight camera head: 145g |



# CAMERA



### Features:

- Full HD camera with 1-chip MOS technology
- Natural color technology
- Full HD video recording
- Full HD image saving
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- HDMI video outputs
- Text generator (optional with keyboard)

### DELIVERY CONTAINS:

- Main Unit (300-001-601)
- Camera head with 3m cable (300-001-602)
- YPbPr/RGB cable • 2x BNC cable • HDMI - DVI cable
- HDMI cable • S-Video cable • Jack cable • USB Pen Drive
- Operating manual • Mains cable

### Technical data

|                  |                             |
|------------------|-----------------------------|
| Line voltage     | 100-240 VAC                 |
| Power input      | 30W                         |
| Image sensor     | 1/3" MOS                    |
| Resolution       | 1920 x 1080 pixels (FullHD) |
| Image resolution | >1000 TV lines, horizontal  |
| Index ratio      | 16:9                        |
| Min. sensitivity | < 3lx (1/1.4)               |

### Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.

|               |  |
|---------------|--|
| Video outputs | 2 x HD SDI (optional)<br>1 x HDMI / DVI<br>1 x Y-Pb-Pr (Component)<br>1 x Video (PAL/NTSC)<br>1 x S-Video (PAL/NTSC) |
| Dimensions    | Control unit: 380 x 120 x 360mm (WxHxD)<br>Weight control unit: 11kg<br>Weight camera head: 105g                     |





# HD-Camera F1

300-001-600



HYS ENT URO SPINE

# CAMERA

### Features:

- Full HD camera with 1-chip MOS technology
- Natural color technology
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- HDMI video outputs
- Text generator (optional with keyboard)

### DELIVERY CONTAINS:

- Main Unit (300-001-600)
- Camera head with 3m cable (300-001-602)
- YPbPr/RGB cable • 2x BNC cable • HDMI - DVI cable
- HDMI cable • S-Video cable • Jack cable
- Operating manual • Mains cable

### Technical data

|                  |                             |
|------------------|-----------------------------|
| Line voltage     | 100-240 VAC                 |
| Power input      | 20W                         |
| Image sensor     | 1/3" MOS                    |
| Resolution       | 1920 x 1080 pixels (FullHD) |
| Image resolution | >1000 TV lines, horizontal  |
| Index ratio      | 16:9                        |
| Min. sensitivity | < 3lx (1/1.4)               |

### Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.

### Video outputs

- 1 x HDMI
- 1 x YPbPr / RGB
- 1 x S-Video (Y/C; Pal / NTSC)
- 1 x Video (CVBS; Pal / NTSC)

### Dimensions

- Control unit: 380 x 120 x 360mm (WxHxD)
- Weight control unit: 11kg
- Weight camera head: 105g





**Features:**

- Full HD camera with 1-chip technology
- Bright color technology
- Video and Picture recording
- Camera head with 3 programmable buttons
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu

**Technical data**

|              |   |
|--------------|---|
| Line voltage | 100-240 VAC                                     |
| Image sensor | 1/3" MOS  |
| Resolution   | 1920 x 1080 pixels (FullHD)                     |
| Index ratio  | 16:9  |
| Outputs      | 1x HDMI   |
| Connections  | 1x USB, 1x Remote IN<br>2 x Remote OUT, 2x RJ45 |

|                              |  |
|------------------------------|--|
| Safety class (EN 60601-1)    | I  |
| Classification (EU 2017/745) | I  |
| Application part             | BF   |
| Dimensions                   | Control Unit: 380 x 132 x 378 mm (WxHxD)<br>Camera Head: Ø 38 x 79mm |
| Weight                       | Control Unit: approx. 9kg<br>Camera Head: 180g                       |

**Optional available:**



300-001-610  
Footswitch  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.



**DELIVERY CONTAINS:**

- Main Unit (300-001-410)
- Camera head (300-001-410.1)
- HDMI/DVI Cable
- HDMI cable
- 4GB USB Pen Drive
- Mains cable
- Operating manual

300-001-400



### Features:

- Full HD camera with 1-chip technology
- Bright color technology
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu

### Technical data

|              |   |
|--------------|---|
| Line voltage | 100-240 VAC                             |
| Image sensor | 1/3" MOS                                |
| Resolution   | 1920 x 1080 pixels (FullHD)             |
| Index ratio  | 16:9                                    |
| Outputs      | 1x HDMI                                 |
| Connections  | 1x Remote IN<br>2 x Remote OUT, 2x RJ45 |

|                              |  |
|------------------------------|--|
| Safety class (EN 60601-1)    | I  |
| Classification (EU 2017/745) | I  |
| Application part             | BF   |
| Dimensions                   | Control Unit: 380 x 132 x 378 mm (WxHxD)<br>Camera Head: Ø 38 x 79mm |
| Weight                       | Control Unit: approx. 9kg<br>Camera Head: 180g                       |

### Optional available:



300-001-610  
Footswitch  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.



### DELIVERY CONTAINS:

- Main Unit (300-001-410) • Camera head (300-001-410.1)
- HDMI/DVI Cable • HDMI cable
- Mains cable • Operating manual



## TV COUPLER



300-001-823 f=14mm  
 300-001-824 f=25mm  
 300-001-825 f=28mm  
 c-mount, soakable

**4K**  
**FULL HD**



250-015-030  
 Zoom-TV-Adapter  
 f=15 - 30mm  
 c-mount, soakable

**4K**  
**FULL HD**



250-020-025 F=25mm (splitting 90/10)  
 250-020-030 F=30mm (splitting 90/10)  
 Beamsplitter, allows simultaneous video  
 and direct views, c-mount, soakable

**FULL HD**



300-001-813 f=14mm  
 300-001-814 f=25mm  
 300-001-815 f=28mm  
 c-mount, soakable

**FULL HD**