

## Questionnaire for VISULEX Ex-Camera Systems

Please answer the questions below as completely as possible. These will help us to prepare a specification and quotation for your application.

**Should you have any further questions, please contact our Lumiglas division or local representative:**

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Finland: Malux Finland Oy: Phone:+358(0)19 5745 700, Fax:+358(0)19 5745 750, email: info@malux.fi

### Details to address of sender

our Ex-Camera Project Ref. ....	
Name:.....	Title:.....
Company:.....	Phone: ..... Fax: .....
Address: .....	e-Mail: .....
.....	

### 1. Application

- In-Plant Surveillance  Outdoor Surveillance   
Process Observation in closed tanks (vessel, reactor, pipeline etc.)   
Observation of other production procedures

Description of primary subject viewed:
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Level of Detail required:
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Longest Distance (camera lens to subject) viewed: ca. ....m

Shortest Distance (camera lens to subject) viewed: ca. ....m

Field of view:

Shortest Distance: Width x Height (Length) in m: ..... m x .....m

Longest Distance: Width x Height (Length) in m: ..... m x .....m

Lens type required: Zoom  Fixed

### 2. Camera, Control Box & Monitor Environment:

The Control Box is connected between camera and monitor, and serves beside others as power supply unit for the camera.

Camera Environment:  Ex-Hazardous  Ex-zone.....  Ex-temperature class .....

Non Ex  Dust  Wet  Corrosive  Sanitary  Other .....

Ambient Temperature: Min. ....°C Max. ....°C

Distance between camera and Control Box .....m

Distance between monitor (observer) and control Box .....m

Power supply:  230 V ~  120 V ~  other (only AC) .....

Colour System:  PAL (Europe)  NTSC (U.S.)

Details to location of monitor (in non Ex area) .....

Details to location of Control Box (in non Ex area) .....

(Location of Control Box for camera (zoom and focus) should be in a safe area, e.g. next to monitor!)

(note: whenever possible location of Control Box and monitor should be outside of the ex-hazardous area;

within ex-zones much additional expenses for ex-specific design will have to be considered!.)

Do you require a suited monitor:  yes  no, already available

### 3. Illumination

- Existing Lighting Day?  yes  no  
Existing Lighting Night?  yes  no  
Sufficient illumination is general available?  yes  no  
Direct influence on sunrays?  yes  no  
Is glare protection necessary?  yes  no  
Extra lighting required?  yes  no  
(Lumiglas-Ex-Luminaires)  
Supply voltage: .....V  
Additional sightport required for extra lighting?  yes  no

### 4. Process Observation (in reactors)

- Camera to be installed on circular sightglass fitting?  
 yes  no  
 sightglass fitting available  sightglass fitting required  
Sightglass fitting size:  
Viewing Diameter .....mm or Nominal Bore .....mm  
Vessel Material (e.g. 316L, 304): .....  
Sightglass fitting material (as far as other): .....  
Max. internal Vessel Temperature: .....°C  
Vessel Contents/product: .....  
Pressure max. .... bar

### 5. Mounting/Installation of the Camera (outdoor surveillance)

- Camera Mounting Surface:  
Surveillance:  wall  ceiling  corner  tower  roof  
Description of required mounting: .....  
Mounting surface material: .....

### 6. Software/Hardware Requirements

- Is camera image to be integrated into computer system?  
 no  yes, operation system .....  
Is image capturing software required?  
 yes  no

7. Do you require just a camera?   
A complete system?   
Inclusive installation?   
Inclusive start up operation?   
A maintenance contract?

Please add any further information on extra sheets.

Date ..... Signed .....

#### Please return to:

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