

## Installation and Configuration

# Mini Fixed Dome Color Video Camera DDF3000A



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# 1 About this document

## 1.1 Validity

This document applies to the DDF3000A Mini Dome Color Camera. It was created for Version 1 software.

## 1.2 Documentation for DDF3000A

### Start-up

The Quick Guide headed „Comissioning“ lists the most important steps for the assembly, connection and commissioning of the camera.

### Installation and configuration (this document)

The instructions „Installation and configuration“ contains detailed descriptions of the assembly, connection, commissioning and configuration of the camera. You will also find general product information and technical data in this section.

### Storing the documents

Store the operating instructions in an accessible location near the product and keep it in readable condition.

Ensure that all documentation is passed onto any subsequent owner or user of the system.

## 1.3 Convention

### Signs and symbols used



#### Attention!

Contains information on the prevention of damage and malfunctions.

#### Note!

Contains information on limitations of properties or their characteristics.



**Tip!**

Here you will find useful information on safe usage, background information and recommendations.

Words appearing in ***bold and cursive*** generally indicate menu commands.

**Abbreviations in this document:**

- AC** = Alternating Current
- AGC** = Automatic Gain Control
- DC** = Direct Current
- ESD** = Electrostatic Discharge
- NTSC** = National Television System Committee
- PAL** = Phase Alternation Line
- PT** = Pan Tilt
- UTC** = Up-The-Coax
- UWDR** = Ultra-Wide Dynamic Range

---

## 2 For your safety

Only use the camera if it is in proper technical working condition, for the intended purpose and while keeping safety and potential dangers in mind. Observe the technical specifications and the corresponding instructions and/or documentation. Have malfunctions that could compromise safety eliminated immediately! This applies especially for damage to the power supply.

### ❑ Use professionals

Installation, mounting, connection, start-up and configuration of the DDF3000A may only be performed by trained and authorized professionals (installers).

As far as not expressly specified otherwise, this specification also applies for the maintenance, testing and repair of the camera.



### ❑ Read and understand instructions

Read the documentation for the camera carefully and completely before using the camera.

### ❑ Observe the rated voltage

The applied voltage must constantly match the rated voltage of the camera (see technical data).

### ❑ Protection against condensation

Wait approx. 8 hours for the camera to reach room temperature before starting it up.

### ❑ Expansion components/peripheral devices

Use only expansion components conforming with the technical specifications.



### ❑ Connection of the camera

Connection of the camera to a recording system or control panel may only occur while the camera is de-energized. Pull the mains plug!

### ❑ Penetration of foreign bodies and liquids

The camera may not be subjected to moisture or rain. No objects or liquids may penetrate into the camera.



**❑ Danger when opening camera**

If it is necessary that the camera be opened, unplug the power plug before opening.



**❑ ESD measures**

Certain components of the camera may be damaged or destroyed by electrostatic discharge, even while disconnected from the power supply.

Carry out equipotential bonding. Carry out work only with the appropriate ESD protective measures in place.

**❑ Do not make modifications**

Dallmeier electronic GmbH & Co.KG accepts no liability for damage resulting from unauthorized or improper modifications to the camera.

**❑ Mount the camera securely**

The camera must be mounted securely to prevent injury to others (e.g. via falling camera) or damage to the camera.

**❑ Observe regulations**

Inform yourself on local regulations and requirements before using the camera. Also observe the local laws regarding data, working and environmental protection.

**❑ Observe ratings**

Ensure compliance with all technical ratings, operating conditions (Appendix) and requirements at the installation site.



**❑ Disposal**

Disconnect the camera from the power supply. Remove the power cable and all the expansion components / peripheral devices. Return the camera to your respective sales partner.



---

## 3 General instructions

### 3.1 Scope of supply

Included in the scope of supply:

- 1 x DDF3000A Camera
- 2 x screws and pins
- 1 x cable (power supply/video)
- 1 x CD with installation and configuration manual
- 1 x Quick Guide for commissioning

### 3.2 Transportation and packaging

Store the original packaging for transportation at a later date. Dallmeier electronic is not responsible for damage resulting from unprofessional/improper transportation.

Shipping should only occur in the original packaging.

If the original packaging is no longer available, ensure that the packaging used sufficiently protects the unit against damage, moisture, heat and cold.

### 3.3 Approved use

The DF3000A is a Mini Fixed Dome Video Camera for color or b/w imaging. It is designed for indoor use.

### 3.4 Features

The DDF3000A offers a resolution of more than 500 TV lines and a volume range of 128 dB maximum. It has a low light sensitivity of 0.5 lux to provide images with greater color neutrality and clarity of detail, even at low light levels. Designed to be free from glare, the camera permits detailed recognition even against extreme back lighting.

The DDF3000A also offers:

- Detailed reproduction of the highest quality for bright spots as well as in shaded areas using UWDR.
- Suppression of all smearing and blooming effects.
- Zoom with increased resolution using the special Progressive Scan Process (max 4 x digital zoom).
- Progressive Scan Process prevents movement artifacts.
- UTC configuration of the camera via the video cable using a **Dallmeier Recorder (DMS Series)**, Software **PView** or via the **UTC Remote Box**.
- Factory settings suitable for many scenarios with varying light conditions (Presets).



**Tip!**

For detailed information, please see Technical Data in the Appendix.

### 3.5 Certificates

The following certifications were in effect for the DDF3000A camera at the time this document was produced:

- CE

### 3.6 Warranty

The warranty period is 36 months.

The terms and conditions valid at the signing of the contract apply.

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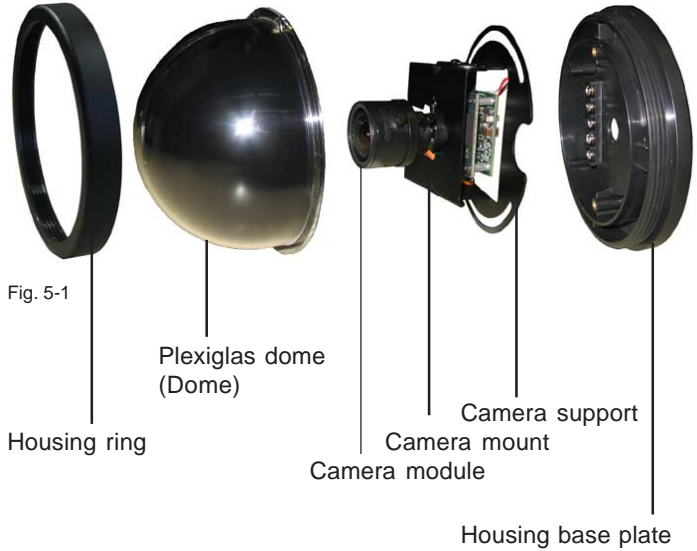
## 4 Notes on operating the camera

- ❑ The camera uses a 12V DC supply.
- ❑ If the camera or the cable connected to the cable is located near sources of strong radiation, the video picture may be distorted.
- ❑ The camera is equipped with automatic gain control (AGC). In low light the picture may be altered (e.g. noise). This is not a camera malfunction.
- ❑ The quality of the video picture depends on the lens used, the lighting and the monitor used to display the video picture.
- ❑ Automatic white balance depends on the lighting used and can cause color distortions in artificial light.
- ❑ Poor lighting can lead to faulty white balance.

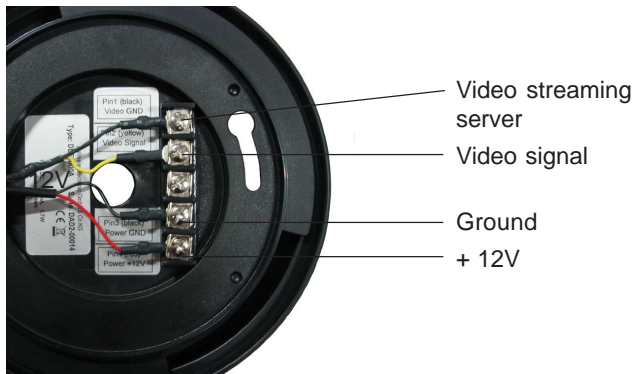


## 5 Viewing and connecting up

### 5.1 Viewing



### 5.2 Connecting up





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## 6 Installation

### 6.1 Requirements at the installation site

The DDF3000A is designed for indoor use. Unfavorable local conditions may shorten the life of the product or lead to malfunctions.

Do **not** install/operate the camera in places:

- with large scale dust and dirt
- with steam or oil vapors (e.g. kitchen)
- if placed in direct sunlight
- with an ambient temperature below 0 °C or above 50 °C.
- near sources of strong radiation, i.e. X-rays, radio transmitters or magnetic fields
- with corrosive surroundings (e.g. gases or salt water)

### 6.2 Removal

1. Unfasten the housing ring by turning it in a counterclockwise direction.
2. Loosen the 2 screws for the camera support (A).
3. Position the camera support over the holes for the fixing screws (B).
4. Re-tighten the 2 screws for the camera support (A).



Fig. 6-1



Fig. 6-2

## 6.3 Assembly

1. Use the housing base plate (or the enclosed stencil) as a template.
2. Mark the drill holes for the fixing screws.
3. Drill the holes for the fixing screws.

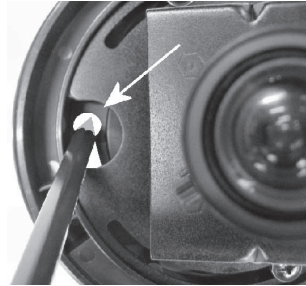


Fig. 6-3



Fig. 6-4

Video

4. Connect the power supply / video cable.
5. Fix the housing base plate to the wall or to the ceiling.

## 6.4 Setting up and adjustment

1. Connect the camera to a monitor and adjust it to achieve the required view.



### **Important!**

Take care not to pull any plugs out of the camera or squash any of the cable.

2. Set the focal distance (Ring A).



---

3. Set the focus (Ring **B**).



Fig. 6-5

4. Secure rings **A** and **B** using screws **C**.

## 6.5 Closing the housing

1. Place the dome and the housing ring onto the housing.



### Important!

In extreme camera settings (vertical or horizontal) the camera may come into contact with the dome. Take care not to scratch the dome.



Fig. 6-6

2. Adjust the viewing panel on the dome.

3. Turn the housing ring in a clockwise direction.



### Important!

Before starting up the Dome, make sure that the dome and the housing base plate are securely mounted.



## 7 Preparing to configure

The camera is supplied with factory settings which enable it to be used for most scenarios without further configuration. However, if required certain camera properties can be configured using the camera menu.

### Note!

There must be no video distributor or signal amplifier between the camera and the UTC Remote Box (or recorder or PView).

### 7.1 General Operation

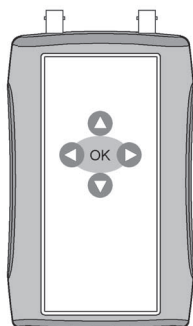


Fig. 7-1

Navigating the camera menu is always by means of the 4 direction keys (up, down, right, left) and in the following sections these are referred to as **Selector**. The **Set Button** is used for input confirmation.

When configuring, it does not matter whether this is performed using the actual buttons on the UTC Remote Box or as a virtual operation with the recorder or with PView. The functionality described below is always the same.

### Note!

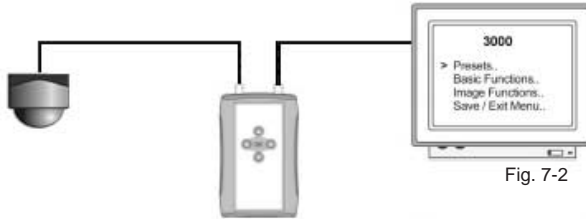
Refer to the separate operator's manuals for the devices or software used.

The configuration menus for the camera are shown as follows according to the various configuration methods:

- |                 |   |
|-----------------|---|
| UTC Remote Box: | Press the <b>OK button</b> for approx 3 seconds.                        |
| DMS Rekorder:   | Open <b>Camera control</b> and click on <b>Open / close menu</b> .      |
| PView:          | Open <b>Camera control</b> and click on <b>Open /close menu</b> button. |

## 7.2 UTC Remote Box

### Direct

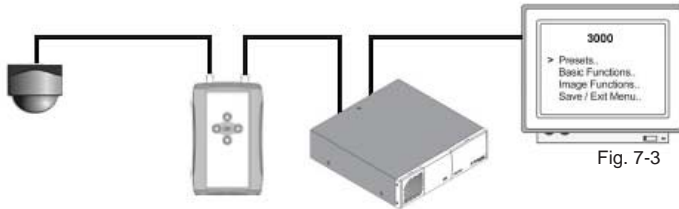


Camera

UTC Remote Box

Composite Video Display

### Via Recorder



Camera

UTC Remote Box

Recorder

Monitor

---

## 7.3 DMS Rekorder

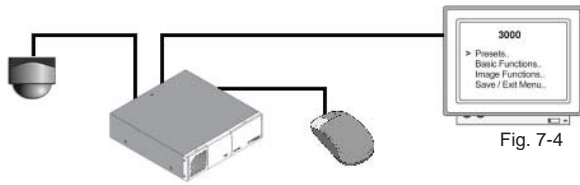


Fig. 7-4

Camera

Recorder

Monitor

**Note!**

This method requires Recorder software version 5.3.1 or later.

## 7.4 PView

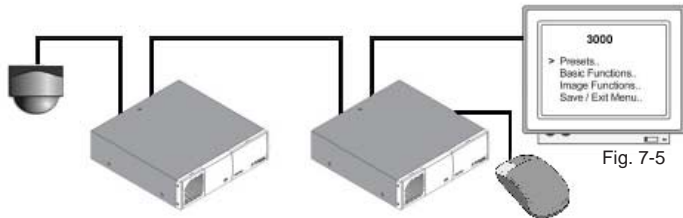


Fig. 7-5

Camera

Recorder

PView Station

Monitor

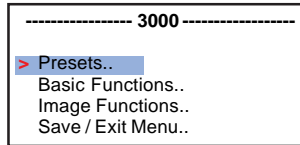
**Note!**

This method requires Recorder software version 5.3.1 or later, using PView version 5.6.0 or later.



## 8 Configuration

The main menu is displayed following the camera menu screen. The cursor (>) is located on the first line at **Presets**.



Two dots after a menu item, e.g. **Presets..**, indicates that additional configuration options are available in a submenu. One dot means that the selected entry (command) is executed by pressing the Set button.

- Press the **Selector** up or down ( ▲ ▼ ) to select a menu item from the list.
- Press the **Set button** to call up the selected submenu or to execute the command.
- Press the **Selector** to the right or left ( ◀ ▶ ) to change the respective setting value.

### Note!

To return from a submenu to the higher-order menu, select **Previous Page** and press the **Set button**.

### Saving settings

- Select **Save / Exit Menu** ⇒ **Set button** in the main menu.
- Select **Save Settings < Yes >** ⇒ **Set button** in the submenu.  
The new settings are accepted. The camera switches to normal operation.

### Cancelling configuration

- Select **Save / Exit Menu** ⇒ **Set button** in the main menu.
- Select **Save Settings < No >** ⇒ **Set button** in the submenu.  
Configuration is cancelled. The camera switches to normal operation. Changes made are not accepted.

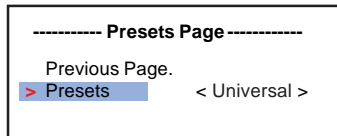
## 8.1 Presets

The presets allow you to very easily adapt the camera configuration to the on-site conditions to achieve the best possible video picture. < **Universal** > is set as the preset at the factory.

### Selecting a preset

- Select **Presets** ⇒ **Set button** in the main menu.
- Select the desired preset next to **Presets** with the **Selector**.

You can call up additional information or make additional settings for each preset by pressing the Set button.



### Take preset

- When you have decided on a preset, select **Previous Page**.
- Select **Save / Exit Menu** ⇒ **Set button** in the main menu.
- Select **Save Settings** < **Yes** > ⇒ **Set button** in the submenu.

The following presets are available:



#### Universal

- Scenes full of contrast with strong backlights.  
The relevant details are in the highlights.  
The maximum dynamic scope of the camera is used.  
Large differences in brightness are adjusted.



#### Details

- Scenes full of contrast with strong backlights.  
Details are displayed in high resolution.  
The maximum dynamic scope of the camera is used.



#### Indoor / Shadow

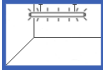
- Indoor scenes full of contrast with strong backlights.  
The relevant details are in the shadow.  
Detail resolution in the shadowy area is optimized.  
Bright areas of the picture are displayed brighter than normal.





### Indoor

- ❑ Preset for indoor scenes with medium contrast. Details are displayed in high resolution. Detail resolution in the bright area is optimized.



### Fluorescent

- ❑ Use for indoor scenes with fluorescent light and low contrasts. Detail playback in the bright area is optimized. Typical flickering with neon lights is compensated.



### Low Light

- ❑ Preset for low light scenes with slowly moving objects. The limit for maximum exposure (shutter) can be controlled manually.

## 8.2 Basic Functions

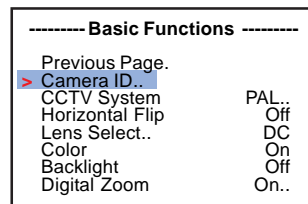
In the Basic Functions area you can make essential settings and specifications for picture display. Select the entry **Basic Functions** ⇒ **Set button** in the main menu.

### 8.2.1 Camera ID

With **Camera ID** you can enter a unique name for the respective camera.

The maximum length of the ID is eight characters.

Select **Camera ID** ⇒ **Set button**.



### ❑ Entering characters

Select **Camera ID**.

Select the appropriate character with the **selector** (right / left).

The next position is activated each time the **Set button** is pressed, and you can enter the next character.

----- Camera ID -----	
Previous Page	
> Camera ID:	12345678
ID Position	Up -Left
ID Display	Off

### ❑ Position of the ID in the video picture

Select **ID Position**.

Select the desired position with the **selector** (right / left).

### ❑ Showing / Hiding

Select **ID Display**.

Choose between **On** and **Off** with the **selector** (right / left).  
If you select **On**, the entered camera ID is displayed at the selected position in the video picture (normal operation).

## 8.2.2 CCTV System

### ❑ Setting the signal system

Select **CCTV System**.

Choose between **PAL** and **NTSC** with the selector (right / left).

< **PAL..** > is set as default.

----- Basic Functions -----	
Previous Page.	
Camera ID.	
> CCTV System	< PAL.. >
Horizontal Flip	Off
Lens Select..	DC
Color	On
Backlight	Off
Digital Zoom	On..

### ❑ Setting the video level

After selecting the signal system you can correct the video level in a submenu if necessary. For this purpose, press the **Set button** after setting the signal system.

The video level can be changed with the selector.

----- PAL -----	
Previous Page	
> Videolevel	100
Linelock	Off
V-Phase	519

## □ Setting the synchronization

- With **PAL** choose between **On** and **Off** for **Linelock**.  
The **V-Phase** can be adjusted if necessary.
- With **NTSC** choose between **Internal** and **Linelock** for **Sync**.  
The **V-Phase** can be adjusted if necessary.

----- NTSC -----	
Previous Page	
Videolevel	
	100
> Sync	Internal
Flicker Free Linelock	Off
V-Phase	
	519



### Important!

The DDF3000A model does **not** support the following functions: **NTSC / Sync / Linelock - PAL / Linelock / On**  
No changes to the factory settings can be made.

## 8.2.3 Horizontal Flip

If picture recording occurs via a mirror, the picture must be flipped to obtain an accurate-to-side presentation.

Select **Horizontal Flip** and press the selector to the right or left to switch between **On** and **Off**.

----- Basic Functions -----	
Previous Page.	
Camera ID.	
CCTV System	PAL..
> Horizontal Flip	< On >
Lens Select..	DC
Color	On
Backlight	Off
Digital Zoom	On..

## 8.2.4 Lens Select

Choose **Lens Select**.

Press the selector and choose < **Manual** > for lenses with manual iris control or < **DC** > for auto iris lenses.

----- Basic Functions -----	
Previous Page.	
Camera ID.	
CCTV System	PAL..
Horizontal Flip	On
> Lens Select..	< DC >
Color	On
Backlight	Off
Digital Zoom	On..

### Note!

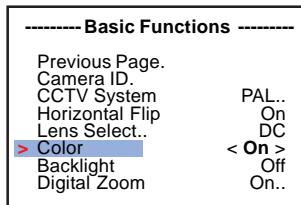
The DDF3000A's lens cannot be changed. Do not change this setting.

## 8.2.5 Color

In certain cases it may make sense to deactivate color playback.

Select **Color**.

You can switch between < **B/W** >, < **B/W w/Burst** > and < **On** > with the selector.

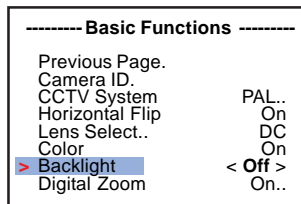


With < **B/W w/Burst** >, the video picture is black and white. The menus are displayed in color and can be read easier.

## 8.2.6 Backlight

When recording against back-lighting, e.g. from windows, glass doors or other sources of light, the Backlight function prevents blanking of the object to a great degree.

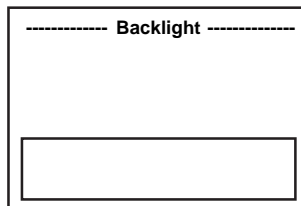
The camera analyzes the light conditions within the field of view and controls the lighting parameters accordingly.



### ▣ Predefined fields of view

Select **Backlight**.

Choose between < **Up** > and < **Down** > with the selector. The designation describes the predefined position of the field of view in the video picture (in the example: **Down**).



### ▣ Freely-defined field of view

Select **Backlight**.

Select < **Set..** > ⇒ **Set button** with the selector.

The field of view is displayed in white.

With each additional press of the **Set button**, the color of the rectangle changes, and with it the possible shape of the modification when the selector is pressed.

**White:** The position of the field of view can be changed with the selector.

**Green:** The field of view can be enlarged with the selector.

**Red:** The field of view can be reduced with the selector.

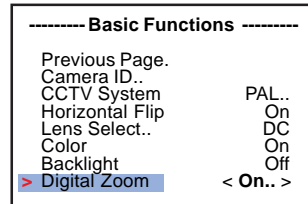
Once you have set the size and position, press the **Set button** for approx. 2 seconds. You are back in the **Basic Functions** menu.

## 8.2.7 Digital Zoom

Select **Digital Zoom**.

Choose the entry < **On..** > ⇨ **Set button** with the selector.

Set the zoom factor next to **Zoom** in the submenu.



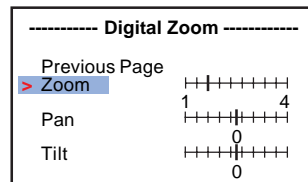
### Note!

Digital panning (**Pan**) and tilting (**Tilt**) are only possible when Zoom factor > 1 has been selected.

Select **Pan** to pan. Move the selector to the right or left.

Select **Tilt** to tilt.

Move the selector to the right or left.

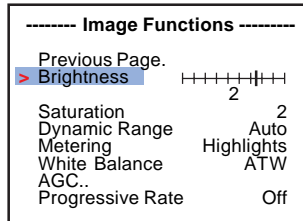


### Attention!

The **Backlight** and **Digital Zoom** functions are mutually exclusive. If Backlight is activated, Digital Zoom is automatically deactivated, and vice versa.

## 8.3 Image Functions

Select the entry **Image Functions**  
⇒ **Set button** in the main menu.



### 8.3.1 Brightness

You can set the brightness with the selector after selecting **Brightness**.

### 8.3.2 Saturation

You can set the color saturation with the selector after selecting **Saturation**.

### 8.3.3 Dynamic Range

**Dynamic Range** designates the scope of contrast between the brightest and darkest points in the picture. With automatic Dynamic Range, the distribution of brightness values is automatically adapted to the recording scenario.

The desired scope of contrast is set with the selector and encompasses five levels, in addition to automatic adaptation (Auto), which you can choose with the selector.

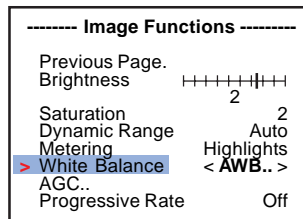
### 8.3.4 Metering

With **Metering** you decide whether the balance point measurement is to be based on bright points (< **Highlights** >) or dark points (< **Shadows** >) in the picture.

### 8.3.5 White Balance

With **White Balance** you can influence the white balance of the camera.

Choose the desired setting with the selector.



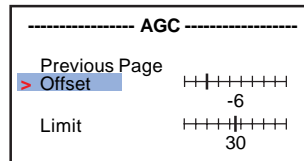


### 8.3.6 AGC

With **AGC** (Automatic Gain Control) the amplitude of the video signal is raised in poor light conditions. The point of use and maximum gain can be set in the submenu.

With the **Offset** slider you set the point of use when regulation is activated.

With the **Limit** slider you set the maximum gain.

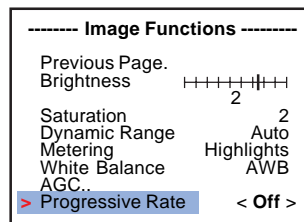


### 8.3.7 Progressive Rate

The image display build-up rate and the image rate can be adjusted using **Progressive Rate**.

#### Off:

At different times, 2 half images will be taken and sent one after the other. Fast-moving objects can create the so-called „comb effect“. To offset this, the setting produces a high image rate.



#### 2x:

At a specific time, 2 half images will be taken and sent one after the other. The so-called comb effect is avoided and - in contrast to **Off** - the image rate is halved.

#### 4x:

At a specific time, 2 full images will be taken and averaged. This setting suppresses the image noise and - in contrast to **Off** - the image rate is reduced to factor 4.

#### 8x:

At a specific time, 4 full images will be taken and averaged. This setting suppresses the image noise to an even greater degree, and - in contrast to **Off** - the image rate is reduced to factor 8.

Settings **4x** and **8x** are suitable for scenarios where there is no movement.

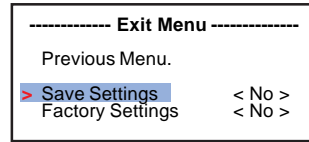
Movement will cause the smearing of moving contents of the image.



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## 8.4 Exit Menu

To exit the configuration and return to „normal mode“ you have two options.



### □ Save Settings

- If you would like to save the changes made to the configuration, select the option < **Yes** > ⇒ **Set button** next to **Save Settings**.
- If you would like to cancel the changes, select the < **No** > ⇒ **Set button** at **Save Settings**

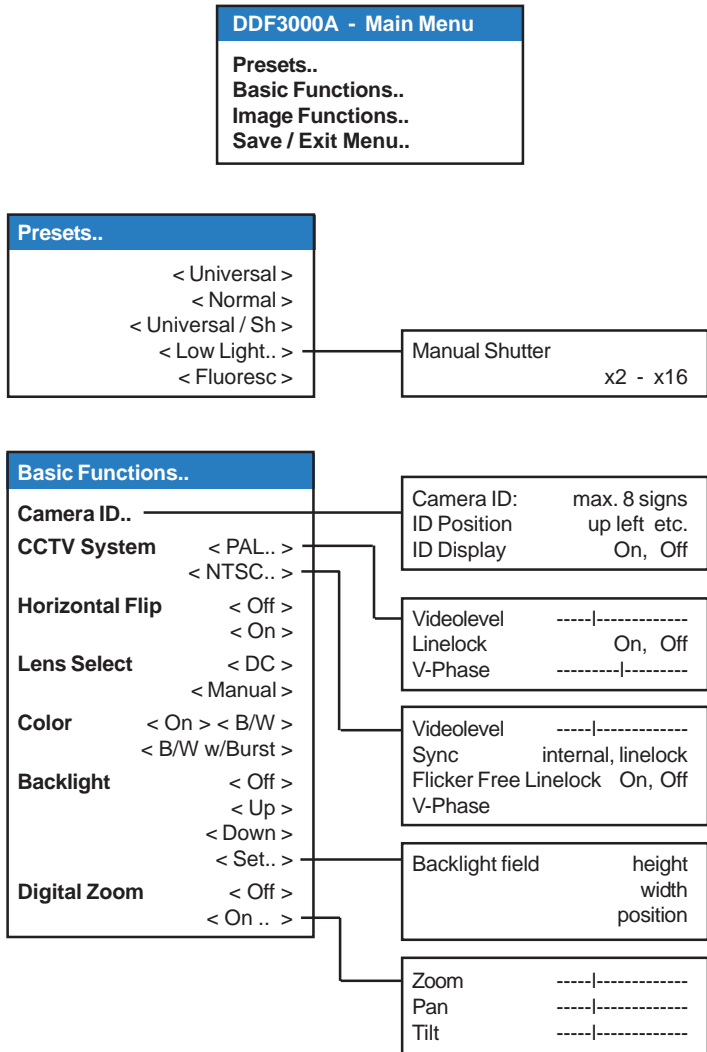
### □ Factory Settings

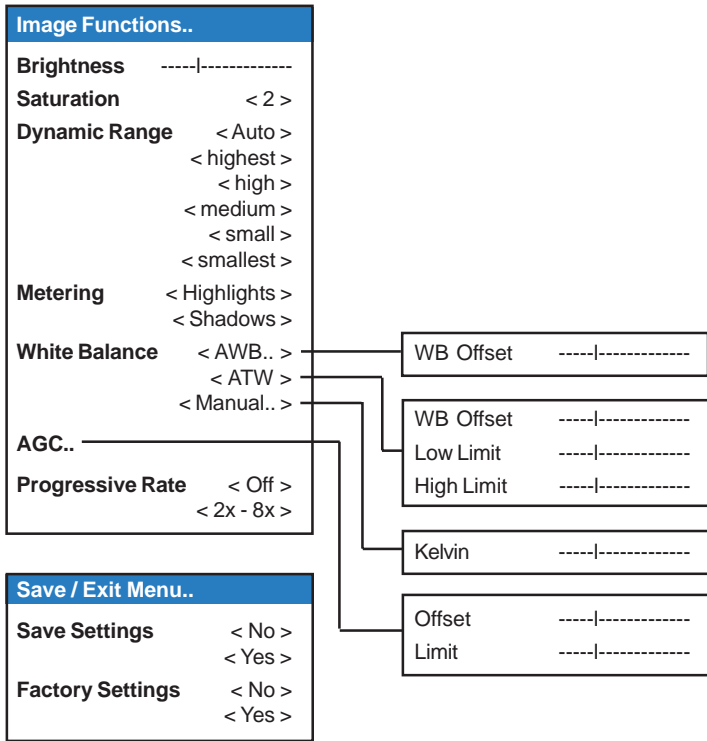
- To reset the configuration to the state of delivery, select < **Yes** > ⇒ **Set button** next to **Factory Settings**.



# A Appendix

## A1 Menu structure





## A2 Metering

(All data in mm)

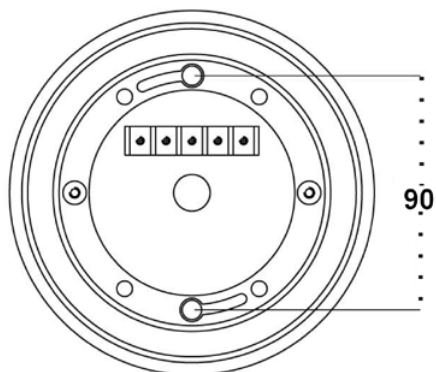


Fig. A-1

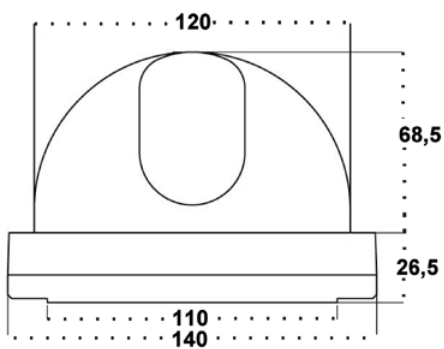


Fig. A-2

## A3 Technical Data

<b>Image device</b>	1/3" Sensor CMOS
<b>Pixel</b>	720 H x 540 V
<b>Video Norm</b>	525 lines / 60 Hz (NTSC) 625 lines / 50 Hz (PAL)
<b>Synchronization</b>	Intern
<b>Resolution</b>	> 504 TV lines (horizontal) > 460 TV lines (vertikal, NTSC) > 540 TV lines (vertikal, PAL)
<b>Dynamic range</b>	128 dB maximal
<b>Sensitivity</b>	< 0,5 Lux at f1,2, 50 IRE
<b>Signal-to-noise ratio</b>	> 50 dB (AGC off)
<b>Control</b>	UTC / OSD
<b>White balance</b> (2000 K to 11000 K possible)	ATW, AWB, Manual
<b>Video output</b>	CVBS 1.0 Vpp at 75 Ohm
<b>Lens selection</b>	DC auto-iris lenses 1:1.2 / 3.8 - 9.5 mm
<b>Operating temperature</b>	0° to 50° C (32° to 122° F) 0° to 35° C (32° to 95° F) recommended
<b>Humidity</b>	0 to 90% (non-condensing)
<b>Power source</b>	12 V DC +/- 5%
<b>Power consumption</b>	< 2 W
<b>Weight</b>	approx. 420 g
<b>Dimensions</b>	Diameter approx. 140 mm Height approx. 95 mm



## Declaration of Conformity

**Product:** DDF3000A

**Manufacturer:** Dallmeier electronic GmbH & Co.KG  
Cranachweg 1  
D - 93051 Regensburg

As manufacturer we declare that the products named above are in accordance with the following EC-Directives:

- Electromagnetic compatibility 89/336/EWG

The following specifications were applied:

DIN EN 55022: 1998-04 class B

DIN EN 55024: 2002-11

(DIN EN 61000-4-2: 2001-12, DIN EN 61000-4-3: 2001-12,  
DIN EN 61000-4-4: 2002-07, DIN EN 61000-4-5: 2001-12,  
DIN EN 61000-4-6: 2001-12, DIN EN 61000-4-8: 2001-12)

DIN EN 61000-3-2: 2001-12

DIN EN 61000-3-3: 2002-05

Regensburg, 05.12.2005

Dieter Dallmeier  
General Manager