Table of Contents

See Warning on Page 2

EX1 Distance Camera
Instructions for use

Introduction

The EX1 Distance Camera is designed to allow distant Images to be magnified on Ash Technologies's 'Liberty Solo' or 'Andromeda' units. When used with the Liberty Solo the Distance Camera can work in conjunction with the Mouse Camera but also on its own.

Contents of package:

The Distance Camera is supplied with the following items. Please verify that you have received all of these items on delivery of the package:

- Distance Camera unit
- Camera pouch
- User manual

- Liberty Solo mounting bracket with 2 x Fixing Thumb Screws
- Cable to connect between the camera and the Liberty Solo.
- 2 x Replacement M3 X 16mm Screws

OR

- Andromeda mounting bracket and plate with 2 x Fixing Thumb Screws
- Cable to connect between the camera and the Andromeda unit.
- 2 x M4 X 12mm Screw

Warning:

The camera Output on the EX1 Distance Camera was NOT designed to connect to a computer network! Plugging a network cable into the Camera will potentially damage both the network and the Distance Camera irreparably.

Normal Mode Of Operation

Top Button

Press to Zoom in.

10X Optical 4x Digital. Minimum working distance at TELE end, 1 metre. If an object is brought closer than this the camera will not be able to focus properly.

Middle (Mode) Button

Press for overview mode or to freeze the image. Depends on button function setup. Refer to page 4.

Bottom Button

Press to Zoom out.

Minimum working distance at WIDE end, 10mm. If an object is brought closer than this the camera will not be able to focus properly.

Menu

Menu Structure

```
BUTTON FUNCTION...
        OVERVIEW
        FREEZE IMAGE
        EXIT SUBMENU
TOGGLE MIRROR MODE
FOCUS MODE...
        FULL AUTO FOCUS
        PUSH TO FOCUS
        EXIT SUBMENU
```

Rev D EN

MENU COLOR...
        WHITE
        YELLOW
        VIOLET
        RED
        CYAN
        GREEN
        BLUE
        EXIT SUBMENU
USER SETTINGS...
        SAVE SETTINGS
        LOAD SETTINGS
        FACTORY SETTINGS
        EXIT SUBMENU
EXIT MENU

The main menu can be accessed by keeping the middle button pressed for longer than two seconds. Move up or down through the menu by using the Up or Down buttons (otherwise called the Zoom In or Zoom Out buttons). Press the middle button to select the Function.

Button Function ...

Selects the function of the Middle Black button in normal operation.

Overview

Pressing the middle button brings the camera into a low zoom position, allowing the user to orientate themselves. Press any button to restore previous zoom level.

Freeze Image

Pressing the Middle button freezes the image being displayed. Press any button to cancel.

Toggle Mirror Mode

Selecting this function toggles the image being viewed from Normal to Mirror mode and vice versa. Mirror mode is ideal when using the camera and display while viewing oneself. A mirror icon (a face) will be seen on your display when in mirror mode.

Focus Mode...

This allows you to choose between full automatic and camera auto focus only when the zoom position has been adjusted.

Full Auto Focus

When selected the camera will constantly monitor and adjust its focus without the user's intervention.

Push To Focus

When selected the camera will only adjust the focus position when Zoom In or Zoom Out buttons are pressed. The Hand symbol will flash to indicate that the camera is still focussing on the image. When this symbol is not flashing the focus position is fixed until the Zoom buttons are pressed.

Menu Color...

Changes the menu color and overview pointer to seven different preset colors. Scroll up or down to select between:

White
Yellow
Violet
Red
Cyan
Green
Blue

Rev D EN

User Settings...

Allows the user to store and restore camera Set-Up

Save Settings

When selected the camera's current; zoom position, menu color, focus mode, middle button function and current viewing mode (normal or mirrored) will be saved.

Load Settings

When selected the saved user settings will be restored. Ideal for Lecture room situations where your desk position is fixed.

Factory Defaults

Restores the Factory settings. Performs lens initialisation to help prolong camera life.

Exit Submenu

Brings user back into the main Menu.

Exit Menu

Select to exit menu.

Maintenance

If dust appears on the image use a lens cleaning brush (available from a photographic store) to clean the lens of the camera. If the pan movement of the camera becomes too loose tighten the M4 hex screw seen on the camera mount.

Specifications

Power Consumption	12V DC / 2.0 W with active motors
Dimensions	57mm wide; 100mm high; 95mm long without connector.
Weight	300g (8.1oz)
Temperature	Storage: 0°C to 50°C / 32°F to 122°F.
	Operating: 0°C to 50°C / 32°F to 122°F
Output	PAL: 460 TV lines

DECLARATION OF CONFORMITY

We, **Ash Technologies Ltd.,** declare under our sole responsibility that this product **EX1 Distance Camera**, of the brand **Ash Technologies** to which this declaration relates, is in conformity with the following standards or other normative documents:

EN 50081-1:1992 CENELEC Generic Emission Standard
    Part 1:Residential, commercial and light industry
EN 50082-1:1997 Generic Immunity Standard
    Part 1: Residential, commercial and light industry.
EN1441: 1997 Risk analysis Medical devices

$C\epsilon$

following the provisions of EMC directive 89/336/EEC and Low Voltage directive 73/23/EEC.

Warranty

Ash Technologies warrants the equipment, when purchased new, to be free from defects in material and workmanship and will repair or replace at Ash Technologies' discretion, any equipment which exhibits such defects; provided that the equipment has been operated under the proper conditions of installation and has not been tampered with by any persons not authorized by Ash Technologies or its agents and that it is solely serviced by Ash Technologies or its agents. In no event shall Ash Technologies, or its agents, be liable for special, indirect, incidental or consequential damages; the original user's remedies being limited to repair or replacement. Ash Technologies makes no other or further warranty, express or implied, including and warranty of fitness for a specific purpose or warranty of merchantability. This warranty is valid for a period of one year effective from the date of delivery. This warranty is applicable only in the country of original purchase.

Ash
Vision for living

Ash Technologies Limited, B5 M7 Business Park, Naas, Co. Kildare, Ireland.
info@ashtech.ie   Internet: www.ashtech.ie

Rev D EN