Automation and Engineering Services

Wheel Dressing Control System

RAGRSW-WDCS-1000

#23, 4TH MAIN, 3RD BLOCK,
THEAGARAJA NAGAR,
BANGALORE – 560 028 INDIA
PH:- 080 2676 0875 / 94484 50969
URL: www.aes-india.in E-Mail – info@aes-india.in

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Overview

The RAGRSW-WDCS-1000 is a System consisting of a PC, Camera, Telecentric Lens, Telecentric Light Source and Application software for manual vision assisted Grinding Wheel Dressing Machines.

Application Description

The RAGRSW-WDCS-1000 is supplied as a retrofit package to be fitted to manual grinding wheel dressing machines. The machines may have an existing optical profile projector or with older camera and lens systems.

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AES Application Software features- User.

- High speed camera interface to render real time 30 fps grinding images.
- Overlay of the cross hairs, Gridlines, guide lines and gude circles for arcs.
- Change of color of the every Overlay by user.
- International Multi-Language support built-in.

AES Application Software features- User.

- Overlay of grinding wheel profiles from autocad dxf files.
- Selectable entity display of lines or arcs from the dxf file by user dynamycally.
- Selectable color for each entity display from the dxf file.
- Dynamic zooming of the display at any point and any factor on the screen.
- User settable zoom factors as per the lens zoom used.

AES Application Software features- Calibration.

- Calibration of zoom factor and lens offset stored as settings files for rapid calibration.
- Camera brightness, contrast, gamma settings, frame rate settings by user.
- Color schemes stored as user settings file for easy recall.
- Last used files and color and zoom settings stored as files for automatic recall on opening of the software.

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Scope of Supply

- Camera color 30 fps, 12 Megapixel with USB interface.
- Telecentric Lens with muti or single zoom
- Telecentric Light source with intesity controller.
- Industrial PC with 19 inch touch monitor, keyboard, mouse.
- License for AES make Dressing Vision software.

Optional Components

- Complete control panel with UPS and the system.

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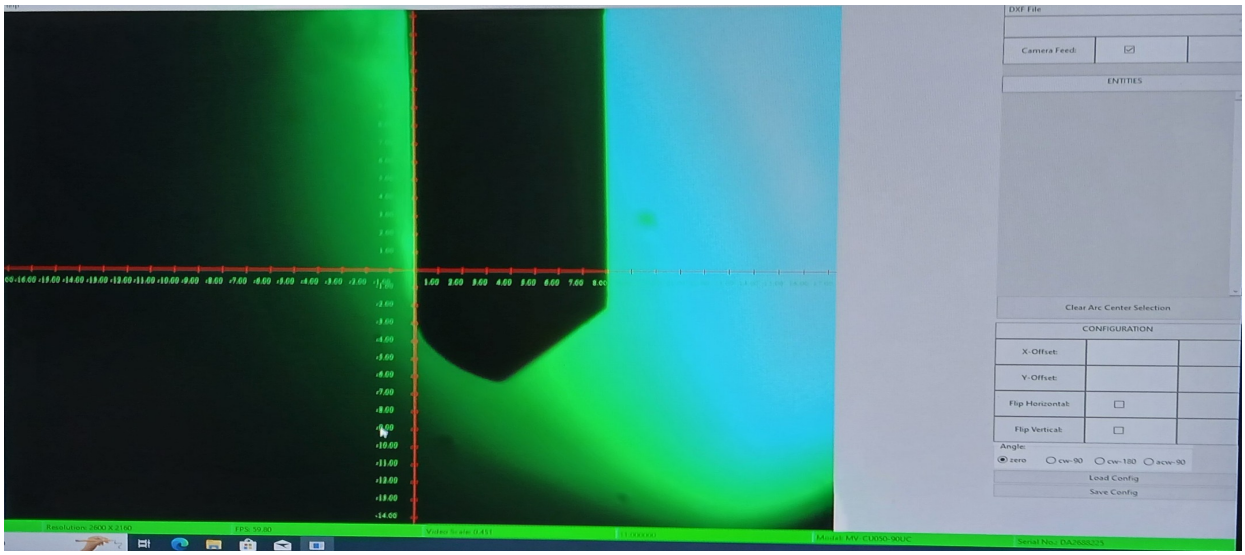
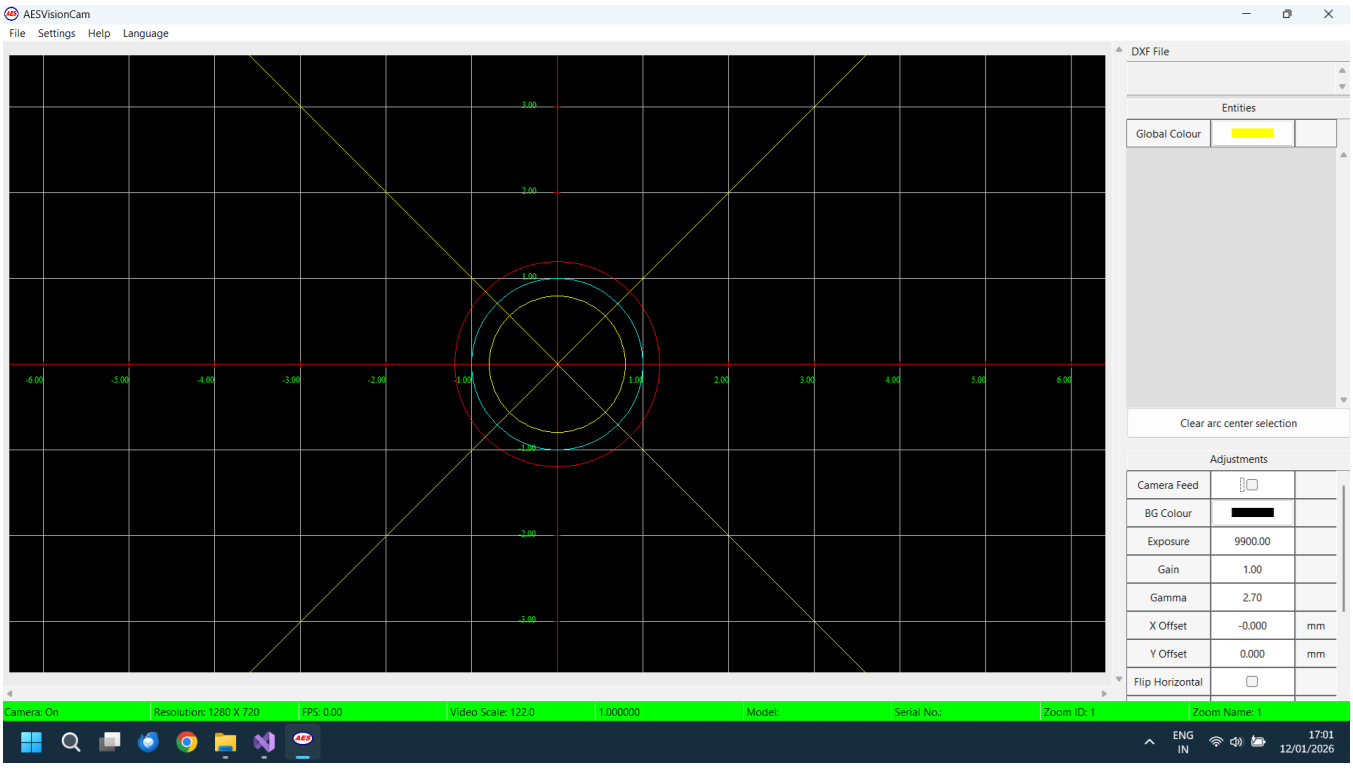
Main Screen with Camera feed



Guide Lines and Circles



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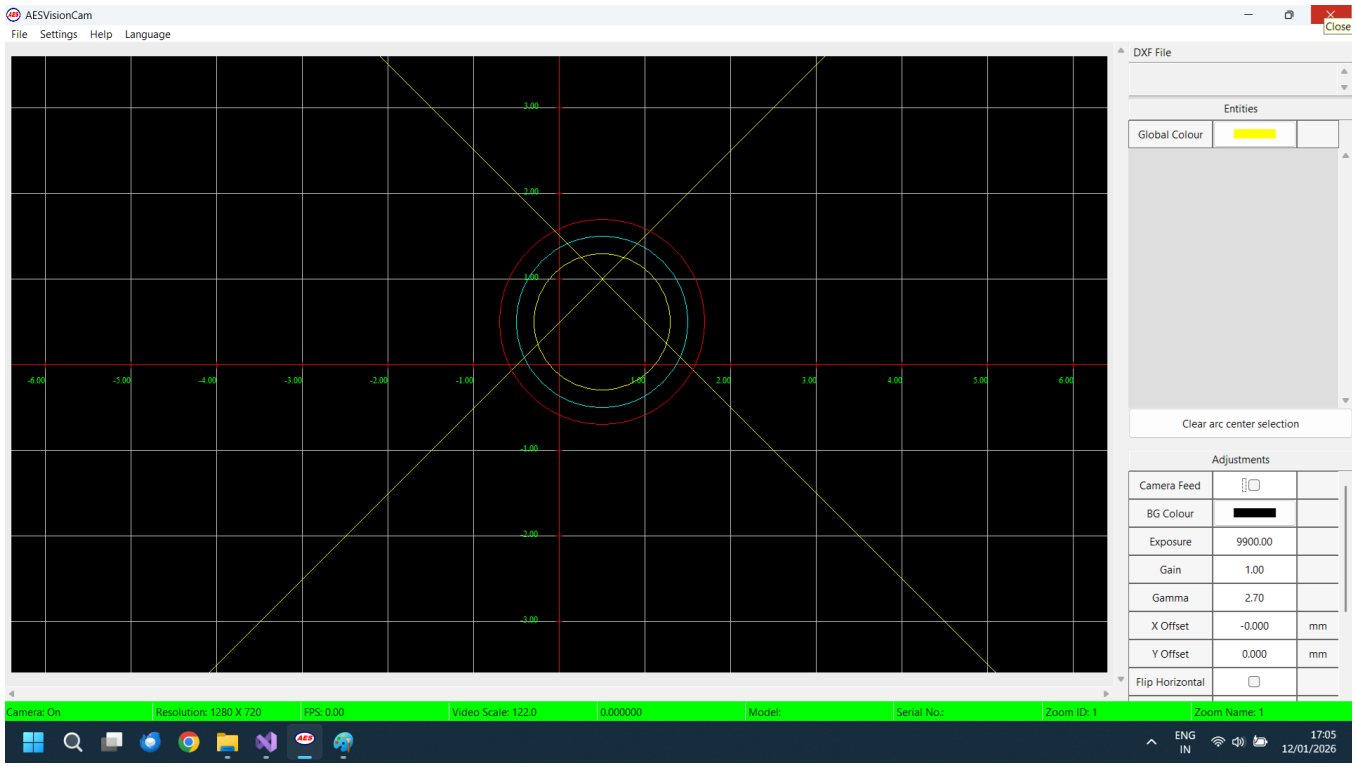
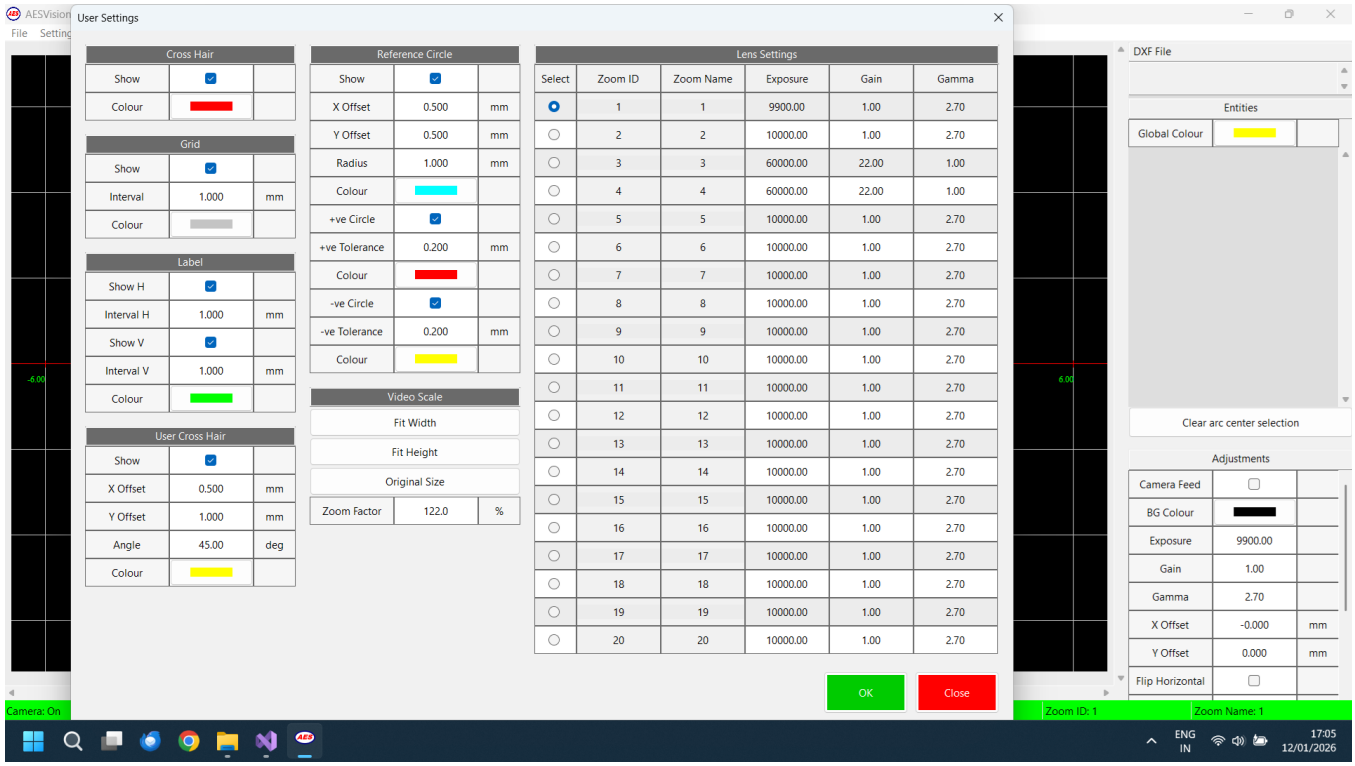
Guide Lines and Circles with Offset



User Settings



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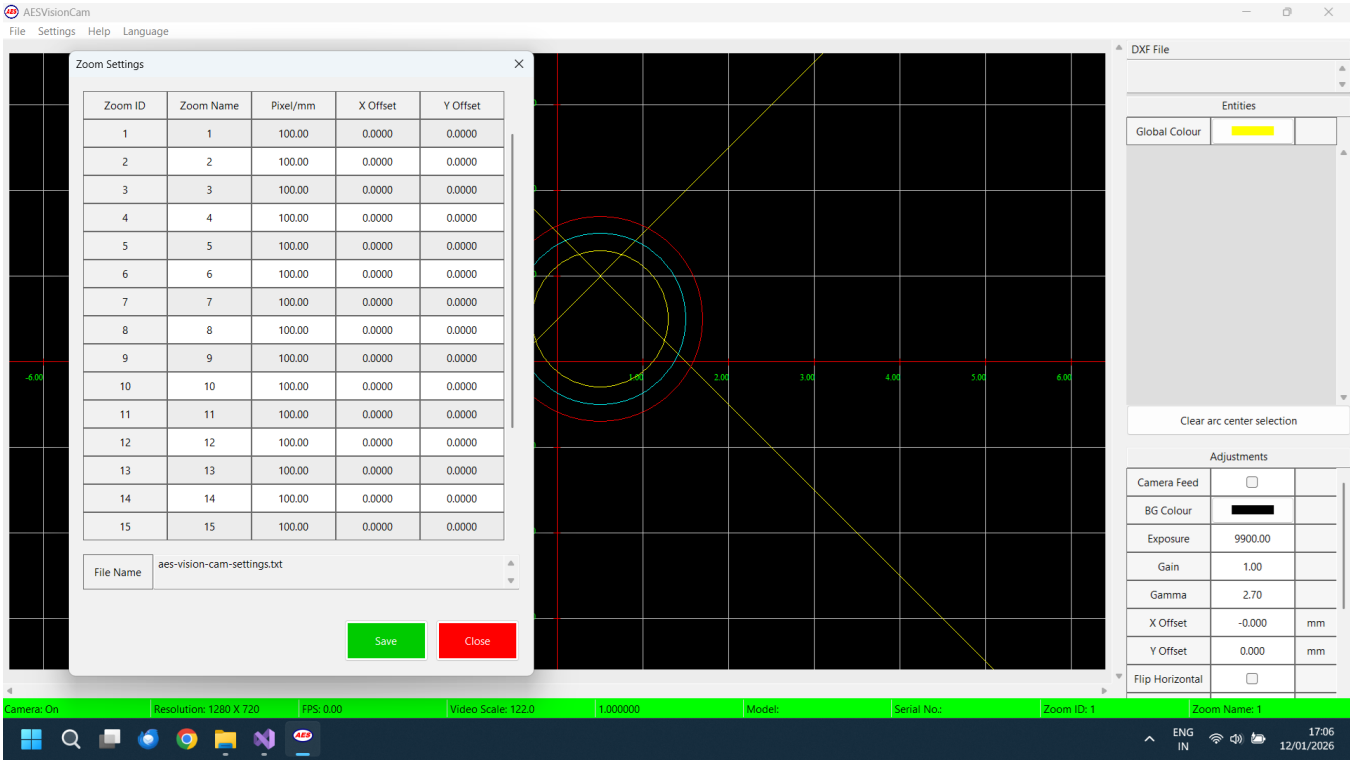
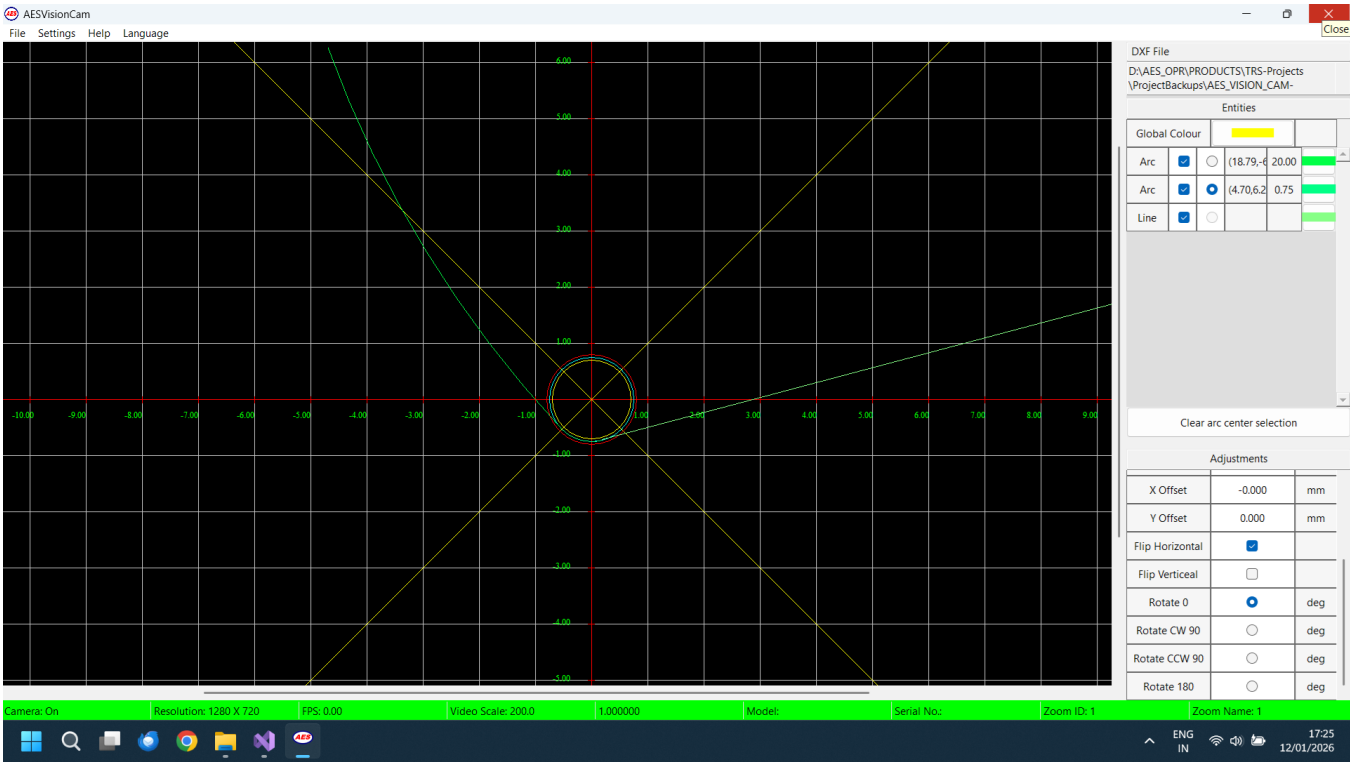
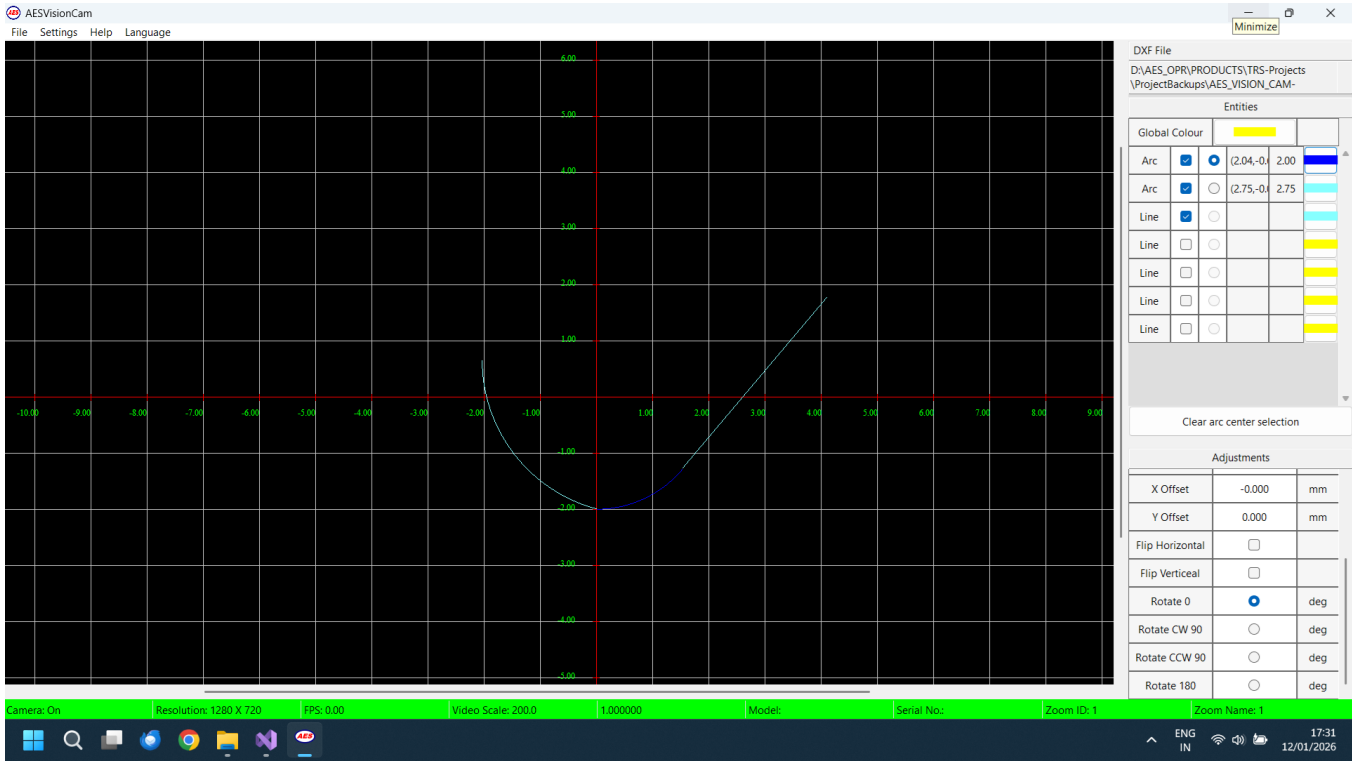
Zoom Settings



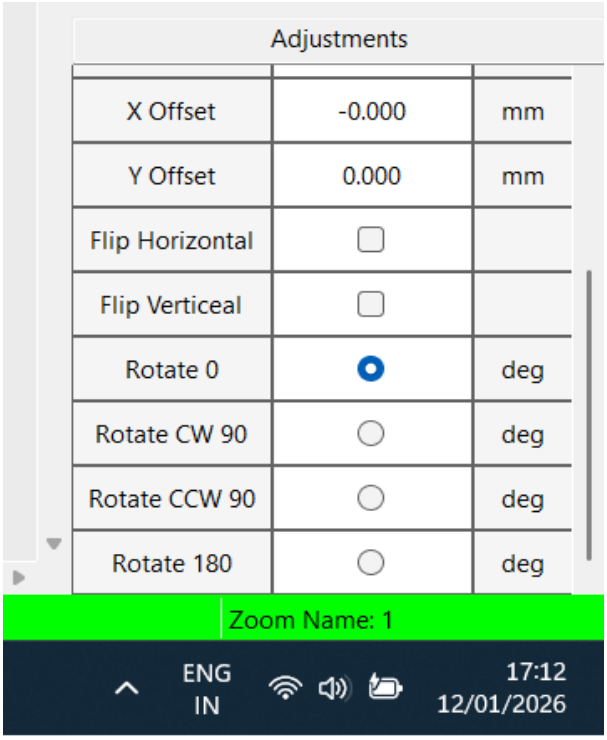
Dxf File and User guide lines and circles



Dxf File



View Adjustments



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