

HANDY CAD MARK I

Advance Command

Y座標

25. 98

-40

-25. 98

The Advance Command provides highly demanded features that could not be addressed by standard CAD commands.

These include creating circular coordinate tables and summary tables, various corner processing functions, and shape correction commands to adjust coordinate discrepancies when importing other drawings.

♦10 6個

A4

A6

B2

♦18 4個

■ coordinate-related command group.

for specified points, circles, or symbols. By adding prefixes and sequential numbers, you can match the list with the corresponding elements.

If circles or symbols are selected as targets, the table can be categorized by diameter or symbol type. Additionally, you can adjust the table width and choose whether to include a remarks column

コマンドプロパラ	イ - 座標一覧
モード	グルーピング
ターゲット	円
代表指定	あり
基準点	なし
作成単位	全て
⊞ 表入力	
□ 並べ替え	
基準	左下
計算方法	近い順
■ 折返し幅	
穴の	順序変更
⊕ 穴径範囲	
⊞ 番号表示位置	Ē
⊞ 表のスタイル	
⊕ 文字情報	
東文字属性	_

代表指定 基準点

同心円チェック

書式 桁数

□ Ληζ-

テキストエディタ

X座標値 Y座標値

備考	A5 A6 B3
前考	A1 A2 B2

Coordinate Output Generates text output of the coordinates

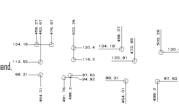
for specified points, circles, or symbols hased on a designated format with optional headers and footers.

When circles or symbols are selected as targets. block headers and footers can be added for each diameter or symbol category. The coordinates of the selected targets are initially displayed in a text output dialog.

In this dialog, you can edit the content as needed. Once editing is complete, pressing the save button will open a coordinate list output dialog, where the file can be exported.

Coordinate Dimensioning / Orthogonal Coordinates

Each command annotates the dimensions of the specified points, circles, or symbols. By specifying a distribution point, the direction of the leade line can be designated.In the coordinate dimensioning comman if the text overlans, the leader line is bent to adjust and ensure that the coordinate values do not overlap



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It can correct endpoint errors or angular deviations (horizontal/vertical)

	ust misaligned endpoints of continuous				
Endpoint Continuity	If the distance between the endpoints of two elements is smaller than the specified tolerance, the elements are recognized as continuous, and their endpoints are corrected to the same coordinates.	8	☑ 端点速	0.0005	×
Coordinate Correction	For example, if the significant digits are set to 5, the value is rounded by rounding the 6th decimal place, and the coordinate values are adjusted.		有効桁	0.0005	*
Angle Correction	If the angle of the line segmen is within the specified angular error range relative to the horizontal/vertical, the angle will be corrected based on the starting point.		中心有効桁 径有効桁		*

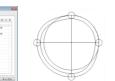
In the dialog, input the specifications and drawing conditions for gears and place them onto the drawing.

The types of gears supported include external teeth, internal teeth, and racks. Along with specifying the pitch coefficient, it also supports other methods such as overlapp tooth thickness and backlash correction.



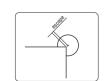
■ Plate Cam

On the dialog, enter the specifications for the plate cam and place it in the drawing. The types of cam curves supported include Cycloidal, Cycloid, Constant Speed, Modified Trapezoidal, Modified Sine, and Modified Constant Speed



■ Corner processing

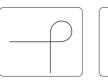
You can select a corner processing type from seven different shapes. Corner expansion or contraction is also possible by specifying options.















Command List.

List of coordinates Create a coordinate list of points/circles/symbols

Create a Circle/Symbol Aggregation Chart

ocordinate inch method Create coordinate dimension lines for points/circles/symbols

coordinate output force Text output of point/circle/symbol coordinate data

Create point/line/circle/symbol drawer coordinates Symbol Escape

Corner processing is done in the specified shape Create the shape of the navel escape

Plate Cam

HANDY CAD MARK I Raster Application

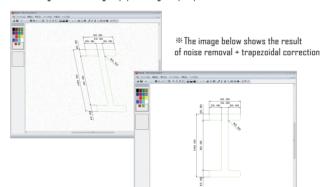
By using the raster application, it is possible to directly edit images (raster) such as maps and illustrations on HandyCADMark. Noise commonly generated during scanning or distortion caused by misalignment of the original paper can be easily corrected with powerful correction and filtering functions.

Additionally, by utilizing the vector conversion feature, the images can be used as CAD drawings.

Correct images with noise removal and trapezoidal correction. Fquipped with a wide range of filter functions as standard. Utilize as CAD drawings through vector conversion.

■ Correct images with noise removal and trapezoidal correction. ■ A set of commands specialized for images.

It is possible to easily correct distortions caused by noise during scanning or misalignment of the original paper through simple operations.



Equipped with a wide range of filter functions as standard.

■ Standard with a wide range of filter functions.

It comes standard with a variety of filter functions such as blurring and embossin



■Use as a CAD graphic in vector conversion

Manual vector tracing and raster-to-vector conversion that were previously done with expensive software are now possible with simple operations



We offer a variety of CAD commands specialized for images, including features like partial copy to extract a portion of an image and composition to combine multiple images into one. Additionally, the raster editing screen provides drawing tools such as line segments and text, along with unlimited Undo/Redo support, allowing for stress-free workflow.





■ Filter function

Thinning:	Reduces the thickness of lines on the image to a width of 1 pixel.
Contour Extraction:	Extracts the contours of lines in the image.
Dilation Processing:	Thickens lines (towards the right). Effective when the image is faded.
Noise Generation:	Generates random noise.
Noise Removal:	Removes noise using a median filter.
Blurring:	Applies a blur effect. Effective when the image is faded.
Edge Extraction:	Performs differential operations to emphasize edge regions.
Embossing:	Applies embossing (edge enhancement).
Data Inversion:	Inverts the numerical values representing the image data.
Vertical Flip:	Flips the image upside down.
Horizontal Flip:	Flips the image left to right.
Rotation Processing:	Rotates the image by a specified angle.
Color Count Adjustment:	Changes the number of bits per pixel without changing the number of pixels in the image.
Resize:	Enlarges or reduces the image size.
Brightness Adjustment:	Adjusts brightness, contrast, and gamma values.
Trapezoidal Correction:	Transforms a trapezoid defined by four specified points into a rectangle.
Four-Point Correction	: Maps an image onto a drawing by specifying four points on the raster and their corresponding points on the drawing.

Basic Specifications

TIFF、JPEG、PNG、BMP

1-bit (2 colors) 4-bit (16 colors

Centerline Tracking Shape, Contour Tracking Shape

image drawing CAD Commands

dots, brushes, line segments, rectangles, ellipses, strings, fill-out

Move, copy, partial copy, alignment, 4-point correction, synthesis