

## Specifying Colors for Dynamic Rectangles and Circles

### 64K-color Models

The 64K-color HMI models use one word to specify a color. The color word contains the three color components: red, green, and blue. The format to store the three color components of a color is described below.

Bit 0~4: 5 bits to store the blue component

Bit 5~10: 6 bits to store the green component

Bit 11~15: 5 bits to store the red component

### Example

Color	Red	Green	Blue	Hex. Value	Decimal Value
Black	0	0	0	0000H	0
Blue	0	0	16	0010H	16
Green	0	32	0	0400H	1024
Cyan	0	32	16	0410H	1040
Red	16	0	0	8000H	32768
Magenta	16	0	16	8010H	32784
Brown	16	32	0	8400H	33792
Dark gray	16	32	16	8410H	33808
Gray	24	48	24	C618H	50712
Light blue	0	0	31	001FH	31
Light green	0	63	0	07E0H	2016
Light cyan	0	63	31	07FFH	2047
Light red	31	0	0	F800H	63488
Light magenta	31	0	31	F81FH	63519
Yellow	31	63	0	FFE0H	65504
White	31	63	31	FFFFH	65535

## 256-color Models

The following table lists the color index values used by the 256-color HMI models. You can use the color index values to specify the desired colors for your application.

Color Index Value	Color
0	Black
1	Blue; 53% Blue
2	Red; 53% Red
3	Green; 53% Green
4	Magenta; 53% Magenta
5	Cyan; 53% Cyan
6	Brown; 53% Yellow
7	Light blue
8	Gray; 50% Black
9	Light red
10	Light green
11	Light magenta
12	Light gray; 20% Black
13	Light cyan
14	Yellow
15	White
23	Murky Green
29	Walnut
34	Ruby red
39	Chartreuse
41	Brick Red
48	Orange
50	Deep Yellow
54	Forest Green
62	Spring Green
65	Dark Brown
66	Olive Drab
67	Avocado Green
73	Olive
74	Martian Green
78	Red Brown
79	Gold
80	Banana Yellow
84	Autumn Orange
85	Light Orange

88	Deep Navy Blue
91	Grass Green
94	Deep Purple
96	Moss Green
97	Kentucky Green
103	Army Green
107	Crimson
109	Khaki
110	Dull Green
113	Regal red
117	Moon Green
118	Neon Red
120	Tropical Pink
121	Peach
123	Light Yellow
125	Navy Blue
130	Storm Blue
132	Desert Blue
134	Sea Green
137	Grape
139	Ocean Green
142	Deep Violet
144	Dusty Plum
146	Faded Green
147	Mint Green
149	Deep Rose
150	Dusty Rose
155	Hot Pink
156	Deep Pink
157	Soft Pink
158	Sand
159	Chalk
166	Deep Blue
172	Deep River
174	Twilight Blue
177	Turquoise
178	Purple
179	Majestic Purple
180	Twilight Violet
182	Light Blue Green

186	Violet
187	Pale Purple
189	Ghost Green
193	Pink
194	Faded Pink
195	Pale Yellow
200	Sky Blue
209	Deep Azure
210	Electric Blue
211	Baby Blue
214	Blue Purple
216	Blue Violet
217	Pastel Blue
219	Ice Blue
221	Neon Purple
222	Light Purple
223	Easter Purple
224	Powder Blue
229	Light Violet