

[Pre-Pro sample stage]

MOTION DETECT OF VK-S454 SERIES

[REV. 1.0]

This manual applies following models:

<NTSC> VK-S454

<PAL> VK-S454E (not completed)

CONTENTS

● MOTION DETECTION SPECIFICATION	3
1. Function Specification	4
a) Motion Detection ON/OFF:	4
i) Requirement to turn ON the Motion Detection:	4
ii) Restriction/Limitation during the Motion Detection operation:	4
b) Setting Mode:	4
i) Detection area:	4
ii) Detection Sensitivity Level:	4
iii) Setting procedure:	5
c) Detection mode:	5
i) Detection information:	5
d) Note:	5
2. New command for the Motion Detection:	6
a) Command list:	6
i) Switch Motion Detect ON/OFF	7
ii) Switch Area Set/Detect Mode	7
iii) Set Detect Area and Detect Level (At Area Set Mode Only)	7
iv) Clear All Buffer (At Area Set Mode Only)	7
v) Get Detecting Buffer Number (At Detect Mode Only)	7
vi) Get Detected Buffer Number (At Detect Mode Only)	7
vii) Get Integration Of Detected Buffer Number (At Detect Mode Only)	7
viii) SW Detect Area Display	7
3. FLOW CHART	9
● APPENDIX	10

- MOTION DETECTION SPECIFICATION

1. Function Specification

a) Motion Detection ON/OFF:

Switch ON to enable the Motion Detection Function

i) Requirement to turn ON the Motion Detection:

- 1) Privacy Mask: OFF
- 2) Zoom: Stop
- 3) Program AE Mode: Yes

ii) Restriction/Limitation during the Motion Detection operation:

- 1) Switched to MF (Manual Focus mode) automatically.
- 2) No command writing other than Motion Detection command.(OK for data reading).
- 3) Not recommended to use the Digital Zoom during the Motion Detection mode.

b) Setting Mode:

Set the detection area and level (Sensitivity):

i) Detection area:

Any combination of maximum 8 areas from the following 64 divisions can be set.
The display screen is divided 8[H] x 8[V].

	column n1	column n2	column n3	column n4	column n5	column n6	column n7	column n8
line1	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
line2	Area 9	Area10	Area11	Area12	Area13	Area14	Area15	Area16
line3	Area17	Area18	Area19	Area20	Area21	Area22	Area23	Area24
line4	Area25	Area26	Area27	Area28	Area29	Area30	Area31	Area32
line5	Area33	Area34	Area35	Area36	Area37	Area38	Area39	Area40
line6	Area41	Area42	Area43	Area44	Area45	Area46	Area47	Area48
line7	Area49	Area50	Area51	Area52	Area53	Area54	Area55	Area56
line8	Area57	Area58	Area59	Area60	Area61	Area62	Area63	Area64

ii) Detection Sensitivity Level:

Any level from 0 to 5 can be set to the selected area. (No detection for the level 0 setting).

	column n1	column n2	column n3	column n4	column n5	column n6	column n7	column n8
line1								
line2			Level1				Level1	
line3					Level12			
line4		Level10						
line5				Level15		Level14		
line6								
line7		Level15					Level13	
line8								

iii) Setting procedure:

Provided with 8 buffers for both the area and the level setting.
 Any buffer can be used but, No duplicated area setting can be done unless
 Level setting is 0.

	Detect Area	Level
Buffer 1		
Buffer 2	4	4
Buffer 3		
Buffer 4	1	5
Buffer 5	42	0
Buffer 6	43	3
Buffer 7		
Buffer 8		

c) Detection mode:

Detect any motion activity in the set (selected) area.

Detection time: Max: 300ms (8 area setting)
 200ms (6 area setting)

i) Detection information:

Following information can be obtained from selected area during Motion Detection.

- 1) Selected detection Area/Buffer information.
- 2) Current detecting Area/Buffer information.
- 3) Integrated previous detected Area/Buffer information during the Motion Detection mod

e.

The above all information will be processed by assigned each buffer #.

(Example: If area 4 is detected, the above 2) information will be responded by Buffer 2).

d) Note:

Please be aware of that the accuracy of the Motion Detection can not be 100% guaranteed all the time so please offer this Feature/Function to your customer accordingly.

2. New command for the Motion Detection:

a) Command list:

	Refer to:	Note
Switch Motion Detection On/Off	i)	Effective at Privacy Mask OFF only
Mode switch (Area/level)	ii)	
Area / Sensitivity level setting	iii)	Effective at Setting mode only
Clear all buffer setting	iv)	Ditto
Get set/selected buffer #	v)	Effective at Detection mode only
Get detecting buffer #	vi)	Ditto
Get list of detected buffer #	vii)	Ditto
Display for detection area	viii)	

i) Switch Motion Detect ON/OFF

```
:RF95000
:WF940X1X0
  X1X0=00 ; OFF [default]
  X1X0=01 ; ON
```

ii) Switch Area Set/Detect Mode

```
:RF95100
:WF951X1X0
  X1X0=H'00 ; Area Set Mode
  X1X0=H'01 ; Detect Mode
```

iii) Set Detect Area and Detect Level (At Area Set Mode Only)

[Buffer 1]

```
:wF940X3X2X1X0
  X3X2 ; Detect Area ( Max. : H'40 )
  X1X0 ; Detect Level ( Max. : H'05 )
  ( Data Clear : X3X2X1X0=H'0000 )
```

[Buffer 2]

```
:wF942X3X2X1X0
  -ditto-
```

[Buffer 3]

```
:wF944X3X2X1X0
  -ditto-
```

[Buffer 4]

```
:wF946X3X2X1X0
  -ditto-
```

[Buffer 5]

```
:wF948X3X2X1X0
  -ditto-
```

[Buffer 6]

```
:wF94AX3X2X1X0
  -ditto-
```

[Buffer 7]

```
:wF94CX3X2X1X0
  -ditto-
```

[Buffer 8]

```
:wF94EX3X2X1X0
  -ditto-
```

iv) Clear All Buffer (At Area Set Mode Only)

```
:WF95201
```

v) Get Detecting Buffer Number (At Detect Mode Only)

```
:RF95400
  Bit0 ; Hi.:Buffer1 Detecting Lo. :Not Detecting
  :
  Bit7 ; Buffer8
  (Ex.;H'46 : Buffer2,3,7 Detecting)
```

vi) Get Detected Buffer Number (At Detect Mode Only)

```
:RF95500
  Bit0 ; Hi.:Buffer1 Detected Lo. :Not Detected
  :
  Bit7 ; Buffer8
  (Ex.;H'46 : Buffer2,3,7 Detected)
```

vii) Get Integration Of Detected Buffer Number (At Detect Mode Only)

```
:RF95600
  -ditto
```

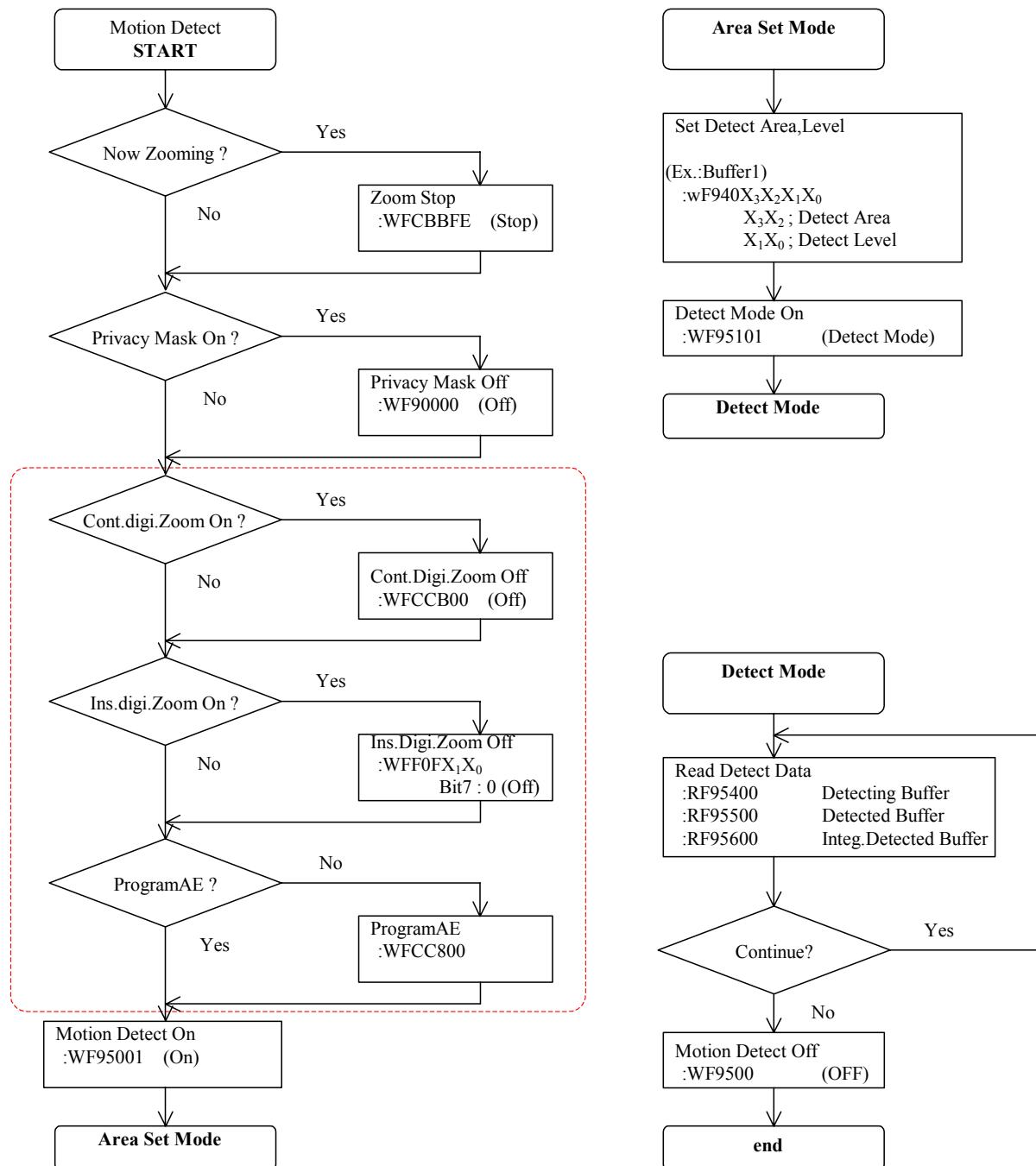
viii) SW Detect Area Display

```
:WF953X1X0
  Bit0 ; Hi.:Area Set Mode Display ON Lo.:OFF
```

Bit4 ; Detect Mode

3. FLOW CHART

Please Refer to the following flow chart:



- APPENDIX

[REV. 1.0]

2001/07/19 * VK-S454 Motion Detect Pre-Pro Sample