

EM2E Chassis

SM 3122 785 10310

The intention of this presentation is to help you to find fast the required service information in the Service Manual, which is needed at repair.

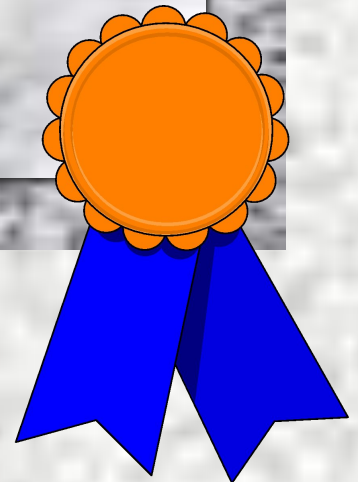
It cannot highlight all the details which are essential at repair, but will inform and clarify some important points.

Service information

Select with mouse	Chassis Alignments	Page 19
Select with mouse	Service Alignment Mode	Page 19
Select with mouse	Service Default Mode	Page 19
Select with mouse	Customer Service Mode	Page 19
Select with mouse	Reading Error Codes	Page 24
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Select with mouse	ComPair	Page 23
Select with mouse	SearchMan	Page 23
Select with mouse	Service Manual	Photo
Select with mouse	Service labels	Photos



The end of presentation
Thank you for your
kind attention!



EM2E Chassis Alignments

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§ 8.1 General alignment conditions page 71

8.2 Alignments LSP panel page 71

8.2.1 **Focusing** (use crosshatch) page 71

8.2.2 **Vg2** adjustment (use black picture) page 71

8.3 **Vertical amplitude** (use crosshatch) page 71

Adjust picture height with pot. **R3603**.

8.4 **Vertical shift** (use crosshatch)

page 71

Adjust with pot. **R3609**.

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EM2E Chassis service modes

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§ 5.2 *Service Modes*

5.2.2 *Service Alignment Mode (SAM)* Page 19

Can be activated by **RC** by dialling '**062596**' + '**OSD**',
by **ComPair / DST** or short-circuiting item **4005** on SSB.

* Following slides will show the ***Service Alignment Mode*** (SAM) menu structure of the EM2E chassis.

* The first slide will show the DST opening menu.

EM2E Service Alignment Menu

The *Service Entry* Menu by *DST*.

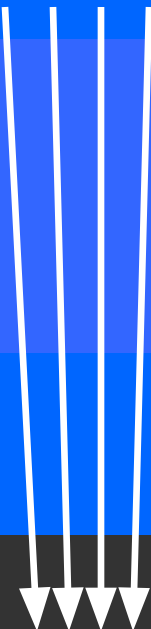
Dial the password by DST or a RC 3 1 4 0 Press OK!

Service Entry



Enter password and press OK:

* * * *



EM2E Service Alignment Menu

Menu

PC simulated menus from 32PW8506 wide-screen TV set.
This is the start menu window we will see in SAM.

Date: May 11 2000 Id: EM2E_11.4_02391

Operation Hours: 00000.0

Errors: No Errors

Defect. Module: Unknown

⇅ Service

Reset Error Buffer

Functional Test

Alignments

Dealer Options

EM2E Service Alignment Menu

Menu

PC simulated menus from 32PW8506 wide-screen TV set.
This is the start menu window we will see in SAM.

Date: May 11 2000 Id: EM2E_11.4_02391

Operation Hours: 00000.0

Errors: No Errors

Defect. Module: Unknown

⇅ Service

Reset Error Buffer

Functional Test

Alignments

Dealer Options

EM2E Service Alignment Menu

This type of information will be shown if there is any error codes detected. *Select and press 'Reset Error Buffer'.*

Date: May 11 2000 Id: EM2E_11.4_02391

Operation Hours: 00000.0

Errors:	5	0	0	0	0
	0	0	0	0	0

Defect. Module: +8 V Supply

⇅ Service

Reset Error Buffer

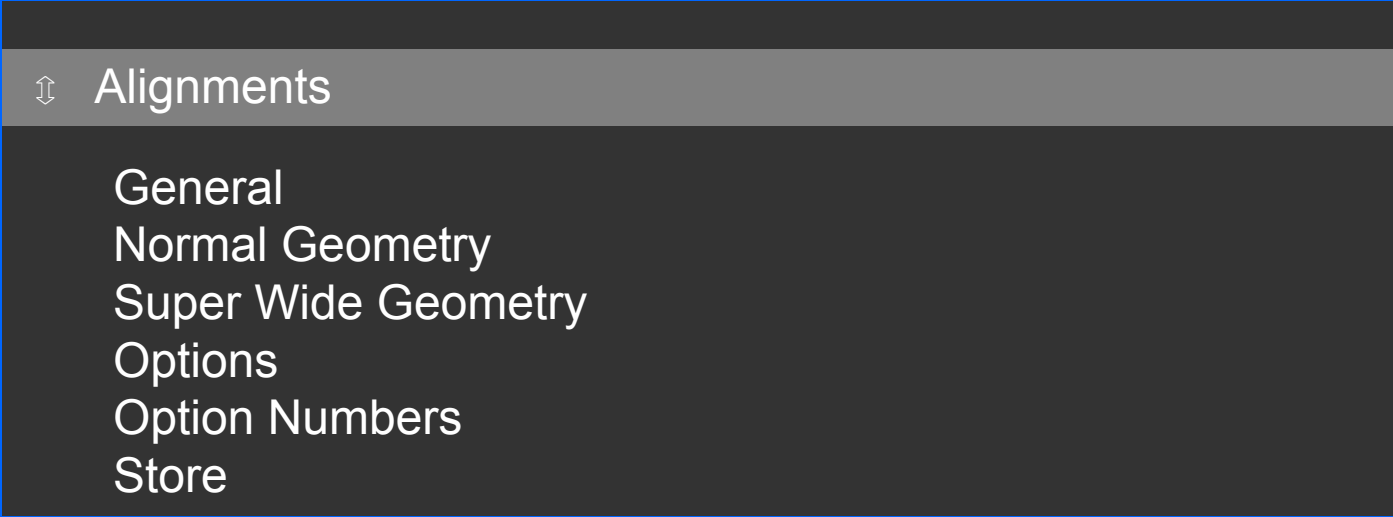
Functional Test

Alignments

Dealer Options

EM2E Service Alignment Menu

The *Alignments* selection Menu.



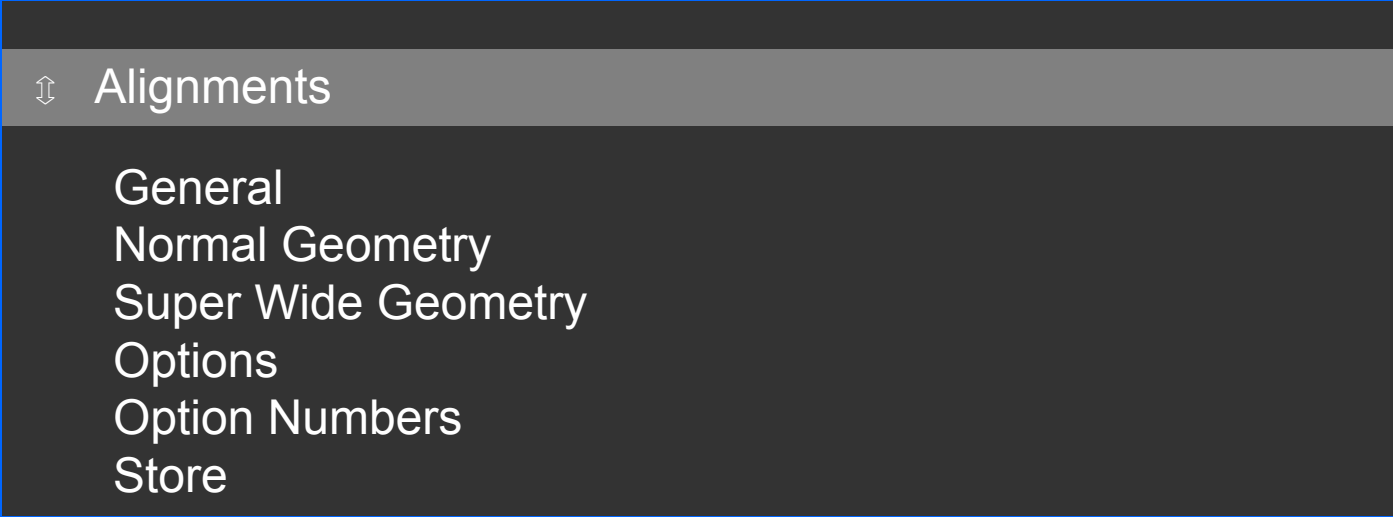
The screenshot shows a software menu interface. At the top, there is a blue rectangular button. Below it, a dark grey menu is open, displaying the following options: 'Alignments' (with a double-headed vertical arrow icon), 'General', 'Normal Geometry', 'Super Wide Geometry', 'Options', 'Option Numbers', and 'Store'.

- ⇅ Alignments
- General
- Normal Geometry
- Super Wide Geometry
- Options
- Option Numbers
- Store

EM2E Service Alignment Menu

The *Alignments* selection Menu.

Menu



The screenshot shows a software menu interface. At the top, there is a dark grey header bar. Below it, the word "Alignments" is displayed in white text on a lighter grey background, accompanied by a small double-headed vertical arrow icon to its left. Underneath this header, a list of menu options is shown in white text on a dark grey background. The options are: "General", "Normal Geometry", "Super Wide Geometry", "Options", "Option Numbers", and "Store".

- Alignments
 - General
 - Normal Geometry
 - Super Wide Geometry
 - Options
 - Option Numbers
 - Store

EM2E Service Alignment Menu

Menu

The *General* Adjustment Menu.

⇅	General		
	Drive		
	Luminance Delays		
	EHT compensation		
	Soft clipper		
	Luma gain		
	IF AFC	∞	
	Tuner AGC	19	
	Blend intensity	4	
	Adjust Peak White Limiter		4
	Vg2 Test Pattern	Off	

EM2E Service Alignment Menu

The Normal Geometry Adjustment Menu.

8.5.3 Normal Geometry (Menu) Page 73

- * N.B. The 'INTERNAL TEST PATTERN' cannot be used for alignment. If used, it will result a miss-aligned picture. Use external test pattern for good alignment!
- * Use only the 'INTERNAL TEST PATTERN' for the 'Vertical slope' adjustment!
- * These alignments are feasible for all 4:3 and 16:9 sets.

N.B. All changed values must be stored by 'STORE' in the menu. The set must be restarted by the mains switch to activate the new values!

EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

Menu

⇅	Normal Geometry	
Test Pattern		Off
V. Slope	42	
H. shift	36	
H. amplitude		27
East/West Parabola		15
Upper East/West corner		33
Lower East/West corner		28
East/West Trapezium		32
Horizontal parallelogram		8
Horizontal bow	8	

EM2E Service Alignment Menu

The *Super Wide Geometry* Adjustment Menu.

Menu

⇅ Super Wide Geometry

Test Pattern	Off
H. amplitude	27
East/West Parabola	15

EM2E Service Alignment Menu

The *Drive* selection Menu.

Menu

⇅	Drive	
	Test Pattern	Off
	Red	29
	Green	28
	Blue	36
	Cathode	15
	Red BL offset	9
	Green BL offset	8
	Tint	Normal

EM2E Service Alignment Menu

Menu

The *Options* Selection Menu.



Options

Dual screen/PIP

Teletext/EPG

Communication

Picture Tube

Video repro

Source Selection

Audio Repro

Miscellaneous

EM2E Service Alignment Menu

The *Option Numbers* Adjustment Menu.

Menu

⇅ Option Numbers

	04865	04356	04928	00017
12343	00001	00000	00064	

EM2E Service Alignment Menu

The *Dealer Options* Adjustment Menu.

Menu

⇅ DEALER OPTIONS

Picture

Personal

Teletext

Store

Dealer

EM2E Service Alignment Menu

The *Dealer Options* Adjustment Menu.

Menu

⇅ PICTURE OPTIONS

CTI

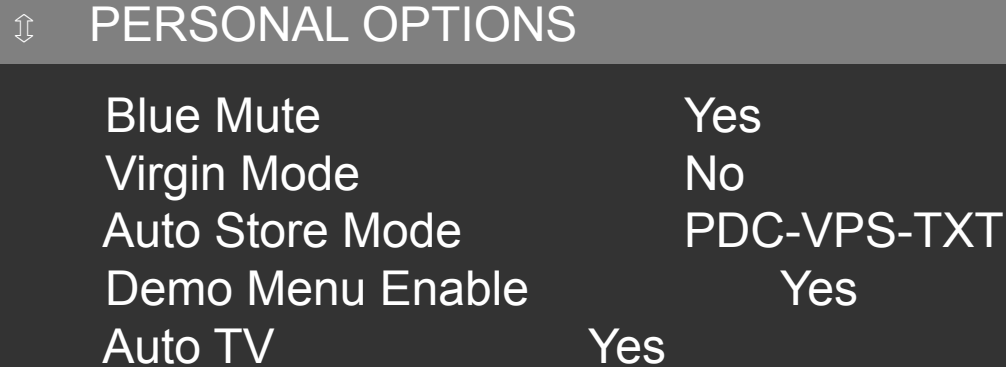
Yes

Dealer

EM2E Service Alignment Menu

Menu

The *Dealer Options* Adjustment Menu.



A screenshot of a service alignment menu. The background is blue. At the bottom, there is a dark grey rectangular area containing the menu items. The menu is titled 'PERSONAL OPTIONS' with a double-headed arrow icon to its left. Below the title, there are five rows of settings, each with a label and a value. The values are: 'Yes', 'No', 'PDC-VPS-TXT', 'Yes', and 'Yes'.

PERSONAL OPTIONS	
Blue Mute	Yes
Virgin Mode	No
Auto Store Mode	PDC-VPS-TXT
Demo Menu Enable	Yes
Auto TV	Yes

Dealer

EM2E Service Alignment Menu

Menu

The *Dealer Options* Adjustment Menu.

PERSONAL OPTIONS

Blue Mute	Yes
Virgin Mode	No
Auto Store Mode	None
Demo Menu Enable	Yes
Auto TV	Yes

Dealer

EM2E Service Alignment Menu

Menu

The *Dealer Options* Adjustment Menu.



TXT OPTIONS

Txt Preference
East/West Txt

FLOF
West

Dealer

EM2E Service Alignment Menu

Menu

The *Dealer Options* Adjustment Menu.



TXT OPTIONS

Txt Preference
East/West Txt

FLOF
East

Dealer

EM2E Service Alignment Menu

Menu

The *Dealer Options* Adjustment Menu.



TXT OPTIONS

Txt Preference
East/West Txt

TOP
West

Dealer

EM2E Service Alignment Menu

From the *General Adjustment Menu*.

Menu

⇅ LUMINANCE DELAYS

Lum. Delay Pal	7	
Lum. Delay Secam		11
Lum. Delay Bypass		10

EM2E Service Alignment Menu

From the *Option Adjustment* Menu.

Menu



Teletext / EPG

TXT

Yes

NexTView present

Yes

NexTView type

No flashram

EM2E Service Alignment Menu

From the *Option Selection Menu*.

Menu

⇅ DS PIP options

Aux type	None
Text dual screen	Yes

EM2E Service Alignment Menu

From the *Option Adjustment* Menu.

Menu



Communication

Easylink Plus

Yes

EM2E Service Alignment Menu

From the *Option Adjustment Menu*.

Menu

⇅ Picture Tube

CRT Type	16:9
Picture Rotation	Yes
Dynamic focus	No
Dooming prevent	Off

EM2E Service Alignment Menu

From the *Option Adjustment Menu*.

Menu

⇅ Picture Tube

CRT Type 4:3

Dynamic focus No

Dooming prevent Off

EM2E Service Alignment Menu

From the *Option Adjustment Menu*.

Menu

⇅ Picture Tube

CRT Type	16:9
Picture Rotation	Yes
Dynamic focus	No
Dooming prevent	SF 16 : 9

EM2E Service Alignment Menu

From the *Option Adjustment Menu*.

Menu

⇅ Picture Tube

CRT Type	16:9
Picture Rotation	Yes
Dynamic focus	No
Dooming prevent	RF 16 : 9

EM2E Service Alignment Menu

From the *Option Adjustment Menu*.

Menu

⇅ Picture Tube

CRT Type	16:9
Picture Rotation	Yes
Dynamic focus	No
Dooming prevent	4 : 3

EM2E Service Alignment Menu

From the *Option* selection Menu.

Menu

Video repro options	
Featurebox type	Prozonic
Lightsensor	No
PALplus	No
Combfilter	No
Picture improvement	No
Picnic AGC	Yes
Signalling bits	Yes

EM2E Service Alignment Menu

From the *Option* selection Menu.

Menu

⇅	Video repro options	
	Featurebox type	Falconic
	Field memories	2
	Lightsensor	No
	PALplus	No
	Combfilter	No
	Picture improvement	No
	Picnic AGC	Yes
	Signalling bits	Yes

EM2E Service Alignment Menu

From the *Option* selection Menu.

Menu

⌄	Video repro options		
	Featurebox type		Eco
	Lightsensor	No	
	PALplus	No	
	Combfilter	No	
	Picture improvement		No
	Picnic AGC	Yes	
	Signalling bits	Yes	

EM2E Service Alignment Menu

From the *Option* selection Menu.

Menu

Video repro options	
Featurebox type	Eco-DNR
Lightsensor	No
PALplus	No
Combfilter	No
Picture improvement	No
Picnic AGC	Yes
Signalling bits	Yes

EM2E Service Alignment Menu

From the *Option Selection Menu*.

Menu



Source Selection

External 3

No

External 4

No

EM2E Service Alignment Menu

Menu

From the *Option Selection Menu*.

⇅	Audio Repro	
	Dolby	None
	Acoustic system	F17
	MSP type	MSP3451A1
	AVL enable	On

EM2E Service Alignment Menu

Menu

From the *Option Selection Menu*.

⌄ Audio Repro

Dolby	Pro Logic
Rear speakers	Virtual
Acoustic system	F17
MSP type	MSP3451A1
AVL enable	On

EM2E Service Alignment Menu

Menu

From the *Option Selection Menu*.

⌄ Audio Repro

Dolby	None
Acoustic system	F18
MSP type	MSP3451A1
AVL enable	On

EM2E Service Alignment Menu

Menu

From the *Option Selection Menu*.

⌄ Audio Repro

Dolby	None
Acoustic system	F17
MSP type	MSP3451A1/3411A2
AVL enable	On

EM2E Service Alignment Menu

Menu

From the *Option Selection Menu*.

⌄ Audio Repro

Dolby	None
Acoustic system	F19 DAS
MSP type	MSP3451A1
AVL enable	On

EM2E Service Alignment Menu

Menu

From the *Option Selection Menu*.

⌄ Audio Repro

Dolby	None
Acoustic system	F19 Monitor
MSP type	MSP3451A1
AVL enable	On

EM2E Service Alignment Menu

From the *Option Adjustment Menu*.

Menu



Miscellaneous

Heatsink Present

Yes

Tuner type

UV316

EM2E Service Alignment Menu

From the *Option Adjustment* Menu.

Menu



Miscellaneous

Heatsink Present

Yes

Tuner type

TEDE9

EM2E Chassis service modes

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§

5.2 *Service Modes*

Menu

5.2.1 Service Default Mode (SDM)

Page 19

Can be activated by **RC** by dialling '**062596**' + '**MENU**',
by **ComPair / DST** or short-circuiting item **4006** on SSB.

N.B. In this mode all TV settings are fixed (default) as follows!

- * Tuned frequency 475.25 MHz
- * TV-systems for BGLM sets are set to BG
- * Picture settings (contrast, brightness, colour & hue are set to 50% value.
- * All sound settings to 50% value except volume to 25%
- * All service unfriendly modes are disabled (like sleep timer, child lock, blue mute, AVL and SDLP).

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5.2.3 Customer Service Mode (CSM) Page 19

To activate it, press simultaneously the '**MUTE**' key on **RC** and the '**MENU**' key on the TV set minimum of 4 seconds.

This menu is meant to show the actual TV settings and other functional information for a customer if requested by service when 'a fault or a malfunction' has occurred.

This CSM menu is *read only menu*, so *NO* modification to any settings can be done by this menu.

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§ 5.2 *Service Modes*

Next

5.2.3 Customer Service Mode (CSM) Page 19

CUSTOMER SERVICE MENU 1

1 SW Version	EM2E_11.5_02431
2 Code 1 (error code)	No Errors
3 Code 2 (error code)	
4 LS Volume	7
5 LS Brightness	28
6 LS Contrast	48
7 LS Colour	31
8 LS Headphone	12
9 Sharpness	3
10Dolby	0
11 Surround mode	
11a Tuner Frequency	<input type="text"/> 203 MHz

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§

5.2 *Service Modes*

Menu

5.2.3 Customer Service Mode (CSM) Page 21

CUSTOMER SERVICE MENU 2

13	Centre Volume	11
14	DNR	Off
15	Noise Figure	15
16	Digital Option	Digital Scan
17	Colour System	PAL
18	TV System	BG
19	Audio System	NICAM
20	Tuned Bit	Off
21	Speaker Config.	0
22	Digital Sources	None

Range 0 - 255, 0 = no noise, 255 = noise

Important for DVD

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5.2 *Service Modes*

Next

5.4 *ComPair*

Page 24

5.4.1 *ComPair* (Computer Aided Repair) is a service tool for **PHILIPS** Consumer Electronics products.

ComPair is the most advanced service tool offered at the present time to assist in fault-finding in complex electronic products.

(DST, RC7150 was the prior service tool)

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§ 5.2 *Service Modes*

Return

5.4 *ComPair*

Page 24

5.4.3 **Stepwise start-up / Shutdown** (power supply)

This function is only possible with *ComPair*.

Stepwise start-up explanation. See the text!

Stepwise shutdown explanation. See the text!

N.B.

5.7.2 For more repair tips see page 28!

ComPair demo

EM2E Chassis service modes

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5.2 *Service Modes*

Return

5.4.2 *SearchMan* (Electronic Service Manual) Page 23

If you have installed *ComPair* and *SearchMan* in your computer (PC) you will have immediate access to diagrams and PCB lay-outs. Ordering codes of components will be found without any loss of time. The *SearchMan* program (engine) is supplied on one CD-ROM disc and up-date Service Manuals are available on two other CD-ROM disc. Five different product groups are supported by this system.

SearchMan info

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5.5.3 *Error Code Table*

Page 25

Error	Device	Description	Def. Item	Diagr.	Defect module
1	ST24E32	NVM	IC7011	B5	Control
2	H fail protection	HFB			Horizontal feedback
3	SAA4978	PICNIC	IC7709	B3	Feature Box
4	Supply 5 V	5V2			+5 V Supply
5	Supply 8 V	8V6			+8 V Supply
6	Slow I ² C-bus blocked				Slow I ² C blocked
7	TDA9330	HOP video contr./geom.	IC7301	B4	Video Controller
8	TDA9320	HIP I/O video process	IC7323	B2	Chroma IF IO
9	X-ray protection				
11	HOP protection				
12	Tuner protection	TUNER_PROT			
13	UV1316	Tuner	U1200	A7	+8 V (Tuner) Supply
14	MSP3451/3415	ITT sound proc. Dolby	IC7651	B6	Audio Module
15	Flash protection				
16	Featurebox protection	FBX_PROT			

EM2E Chassis service modes

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§

5.2 Service Modes

Return

5.5 Error Codes

Page 24

5.5.1 Reading error codes from the buffer

With DST

Try these

The error codes are stored in the buffer in two rows, and the selected one is displayed in SDM by blinking standby LED

If for example the following error codes are found:

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

This is what we can read from the buffer.

The latest error is in position 1, next in pos. 2 etc.

EM2E Chassis service modes

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5.2 Service Modes

Return

5.5 Error Codes

Page 24

5.5.1 Reading error codes from the buffer

The
standby
LED

*If the first error position is chosen... then
The standby LED will blink the value of the error code..*
Tuner protection..



12

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

A long blink means (**ten**) and short blinks (**units**).
The error code is repeated until the set is shut off.

EM2E Chassis service modes

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5.2 Service Modes

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5.5 Error Codes

Page 24

5.5.1 Reading error codes from the buffer

The
standby
LED

So in this case we read the error code 9, which means X-ray protection will blink the value of the error code..



9

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

A long blink means (ten) and short blinks (units).
The error code is repeated until the set is shut off.

EM2E Chassis service modes

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5.2 Service Modes

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5.5 Error Codes

Page 24

5.5.1 Reading error codes from the buffer

The
standby
LED

*In this case the error code is 5 which means,
+8 V Supply LED will blink the value of the error code..*



5

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

A long blink means (ten) and short blinks (units).
The error code is repeated until the set is shut off.

EM2E Chassis service modes

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5.2 Service Modes

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5.5 Error Codes

Page 24

5.5.1 Reading error codes from the buffer

The
standby
LED

If you choose any other error position which contains zero (0). The standby LED will NOT blink..



Error position;	1	2	3	4	5	or..
Error Codes:	12	9	5	0	0	

A long blink means (ten) and short blinks (units).
(In this case the DST display will stay blanked).

EM2E Chassis service modes

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5.2 Service Modes

Next

5.5 Error Codes with DST

Page 24

Always start faultfinding with DST like this;

1. Press the '**Diagnose**' button on the DST!
2. Press the digit keys '**99**'!
3. Press the '**OK**' key!

Now the DST transmits a code to erase all error codes in the set. Switch off the set with the mains switch and start it again with the mains switch. Wait until the standby LED starts blinking!

EM2E Chassis service modes

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5.2 *Service Modes*

5.5 *Error Codes*

Page 24

5.5.1 Reading error codes with DST from the buffer

Write down the error code from the position one

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

If you use DST for fault finding read all error codes from the left to the right until the first zero is found!

EM2E Chassis service modes

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5.2 Service Modes

5.5 Error Codes

Page 24

5.5.1 Reading error codes with DST from the buffer

Write down the error code number two!

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

If you use DST for fault finding read all error codes from the left to the right until the first zero is found!

EM2E Chassis service modes

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5.2 *Service Modes*

5.5 *Error Codes*

Page 24

5.5.1 Reading error codes with DST from the buffer

Write down the error code number three!

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

If you use DST for fault finding read all error codes from the left to the right until the first zero is found!

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5.2 Service Modes

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5.5 Error Codes

Page 24

5.5.1 Reading error codes with DST from the buffer

Now, we have found the first zero and can start looking for the fault from the rightmost error code position, which is in this case position 3, error 5 = +8V Supply !

Error position;	1	2	3	4	5
Error Codes:	12	9	5	0	0

If you use DST for fault finding read all error codes from the left to the right until the first zero is found!

Service Manual

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PHILIPS
VHF + S + H + UHF
SEM2 E AA

Colour television

Service
Service
Service

Chassis
EM2E
AA

Service

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Use this back cover label information to select the correct Service Manual to be used during your repair.

In this corner we find info about language and ordering code

GB

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Published by CO 0061 Service PaCE

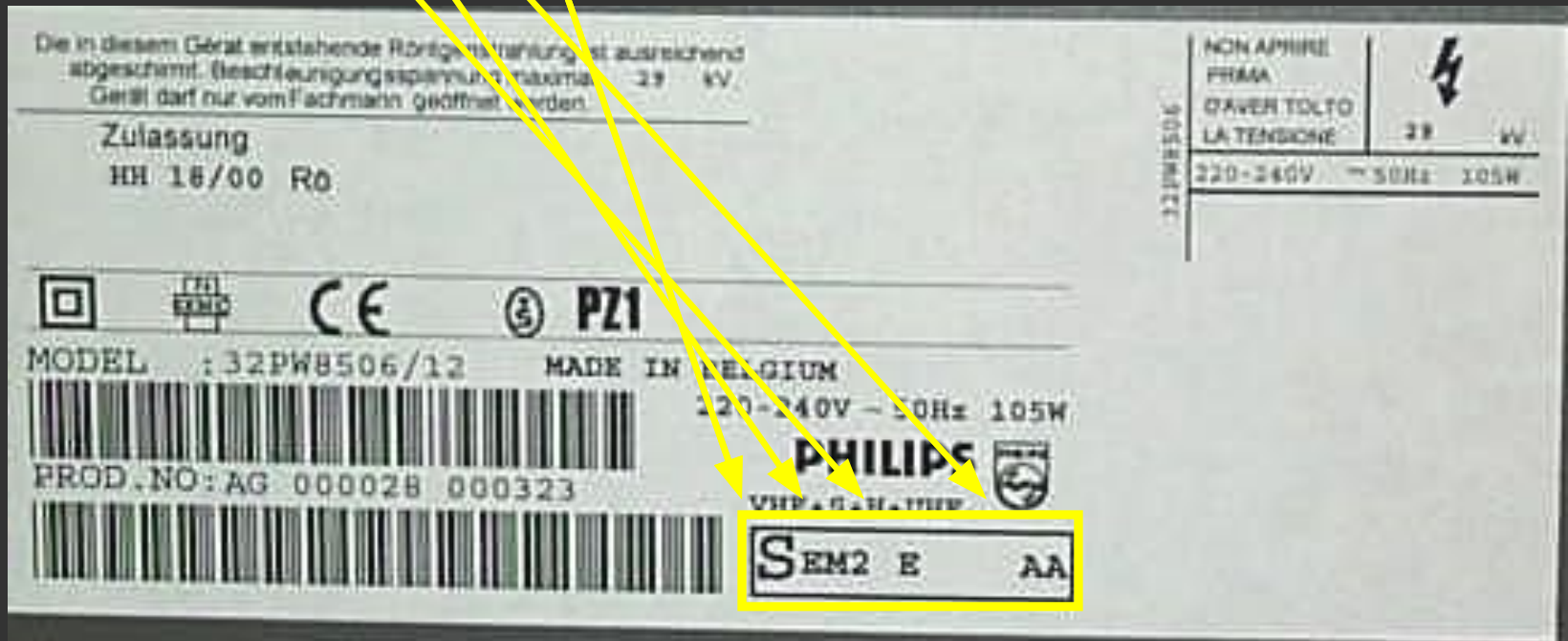
Printed in the Netherlands



The back cover label

The **AA** means the chassis version!

Next



The picture tube sticker

The option codes of the set

If you change the picture tube of the set, you have to move this sticker to the new picture tube or write a new sticker with option codes. It is necessary that this information follows the TV set until it will be rejected to recycling.

Return

Optioncode :

04865	04356	04928	00017
12343	00001	00000	00064

max. EHT : 29 kV
max. Beam Curr. : 1.8 mA

IE

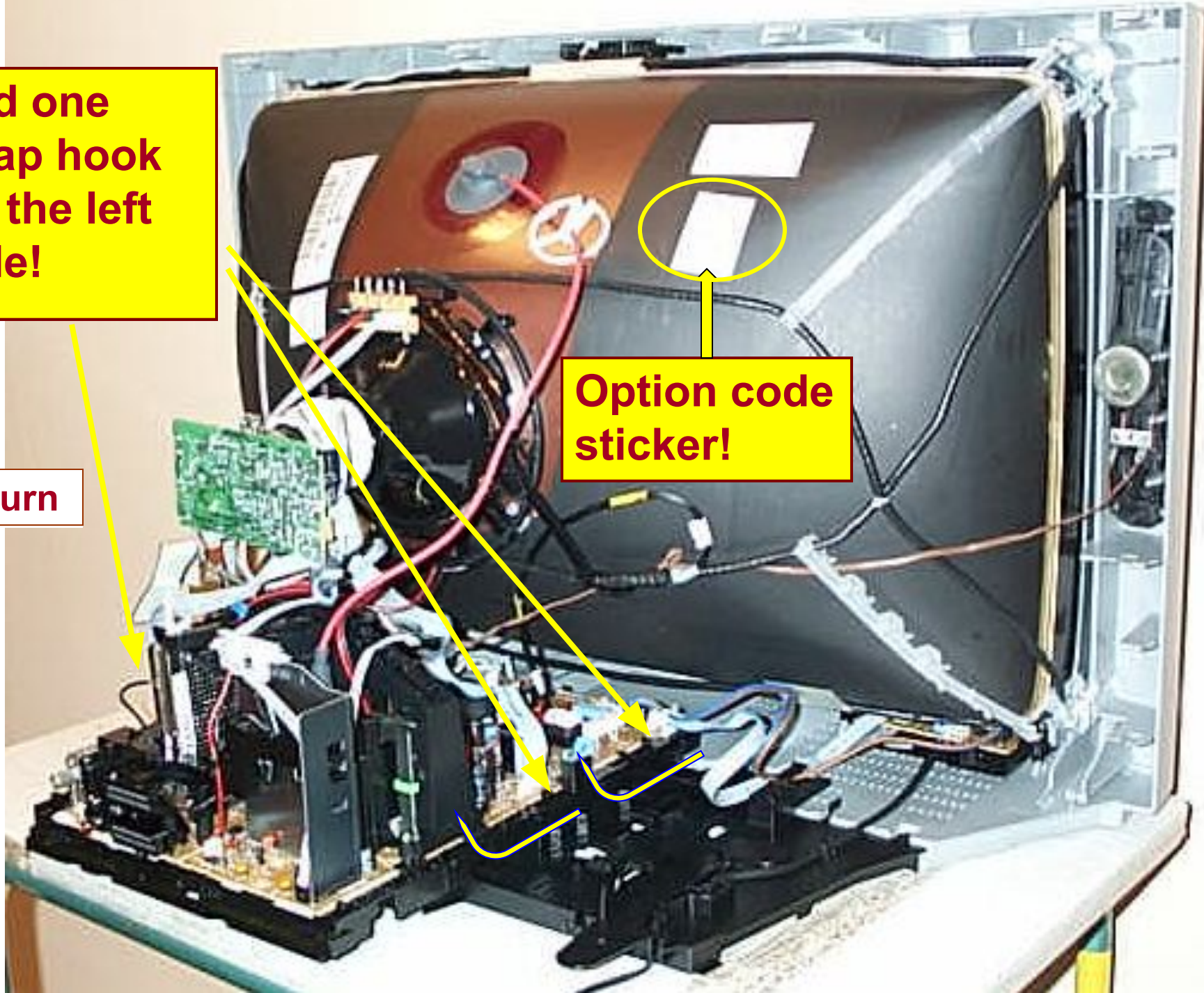
32PW8506/12
AG000034 002149
220 - 240V ~50Hz 105W
VHF+S+H+UHF

MADE IN BELGIUM

**and one
snap hook
on the left
side!**

Return

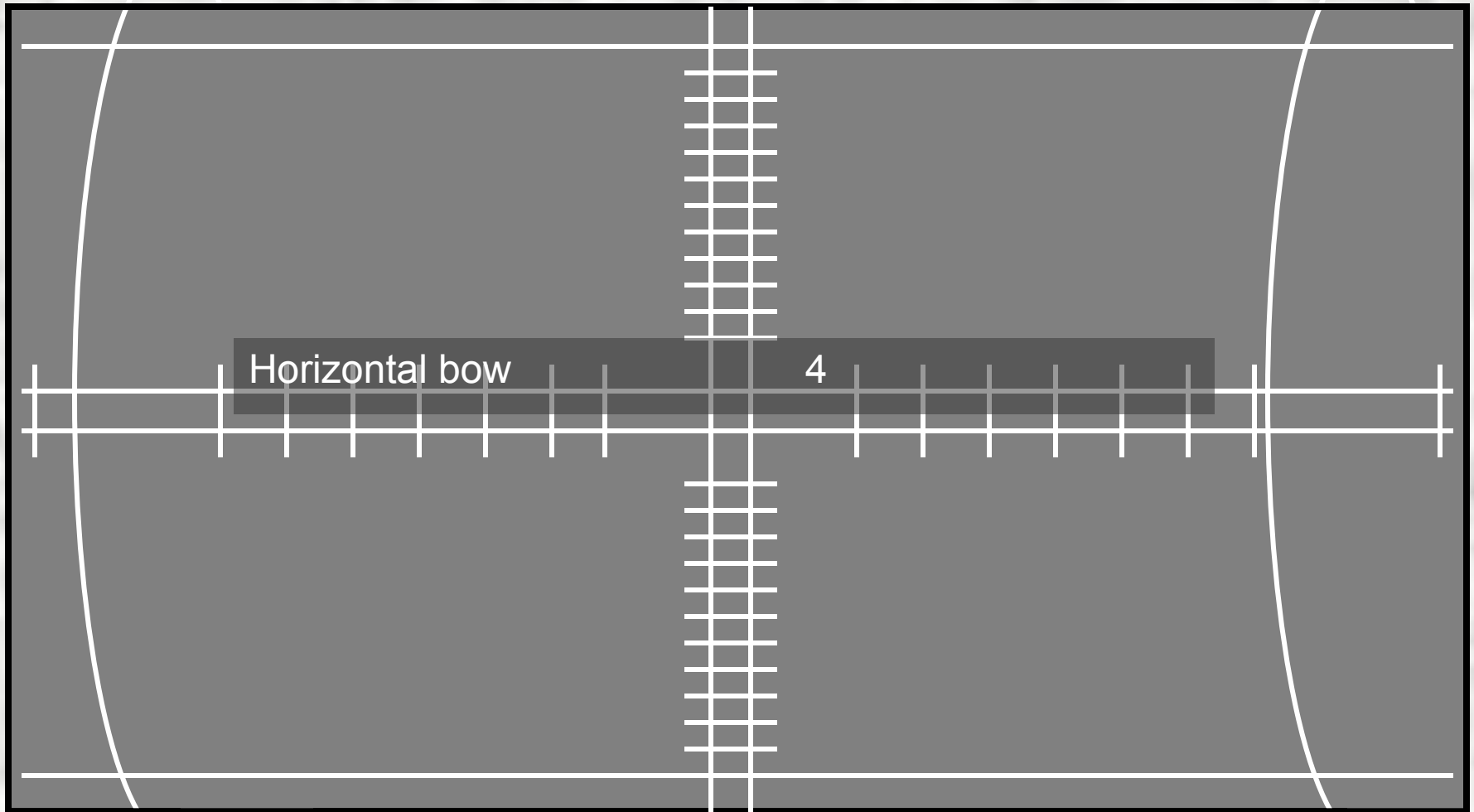
**Option code
sticker!**



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

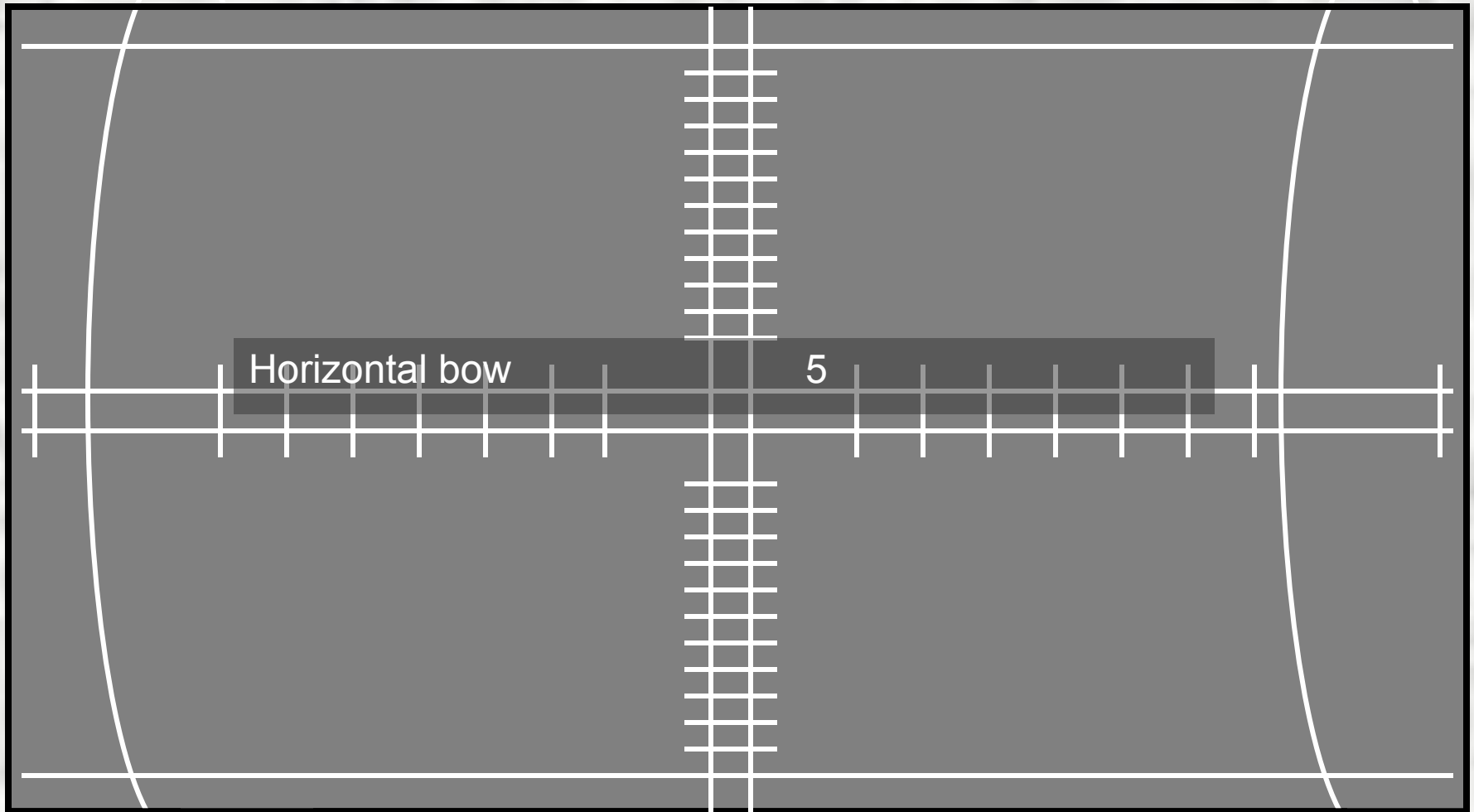
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

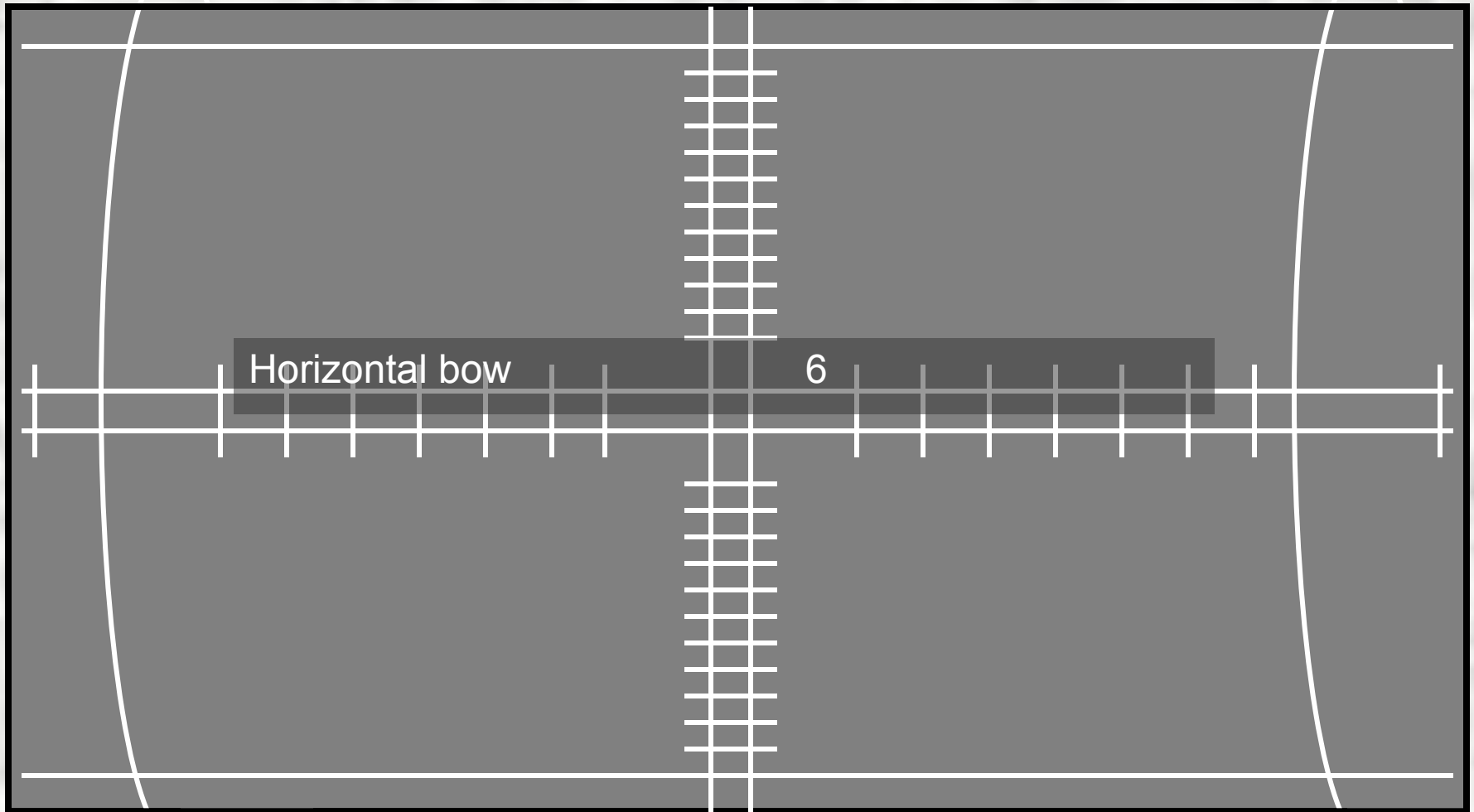
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

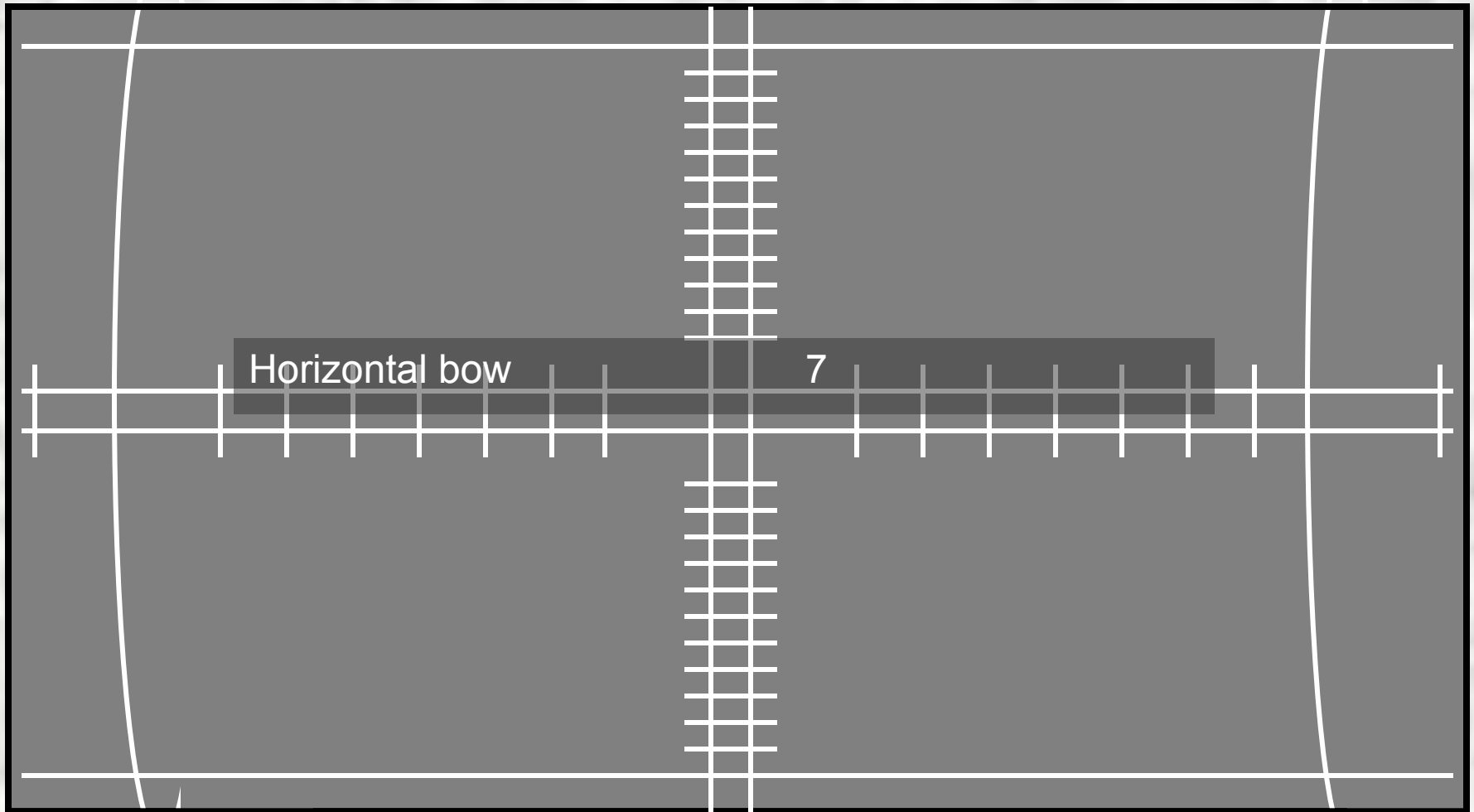
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

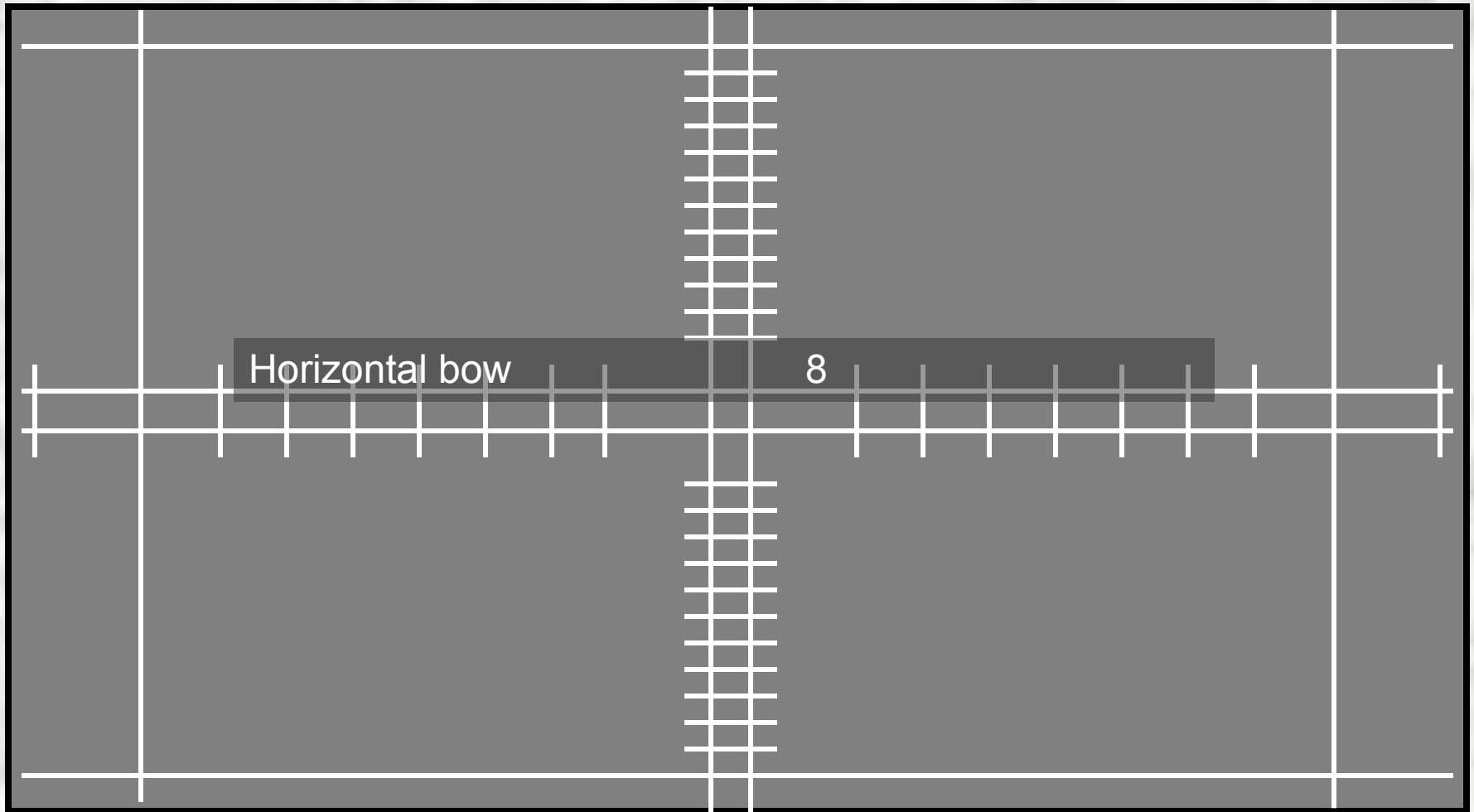
Return



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

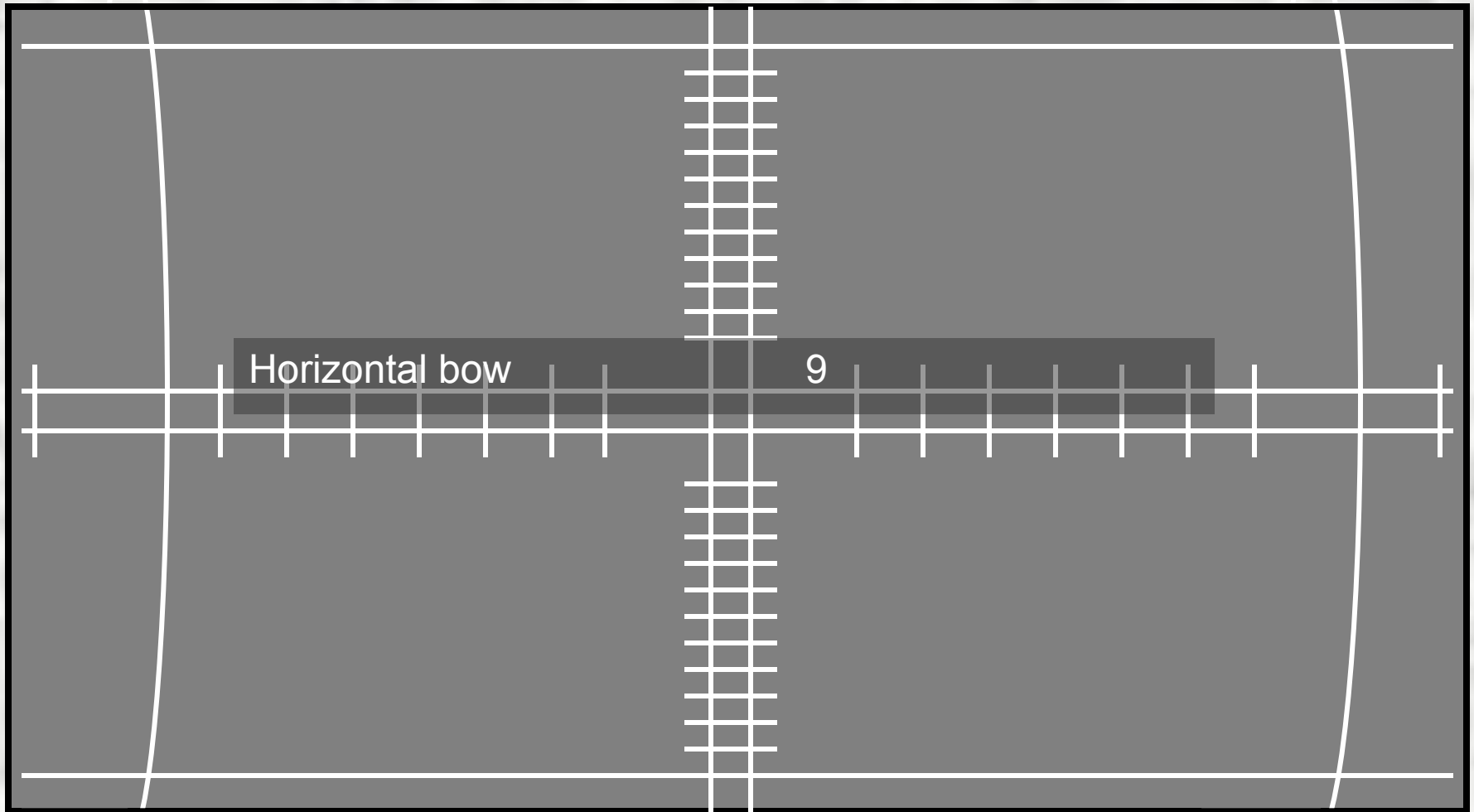
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

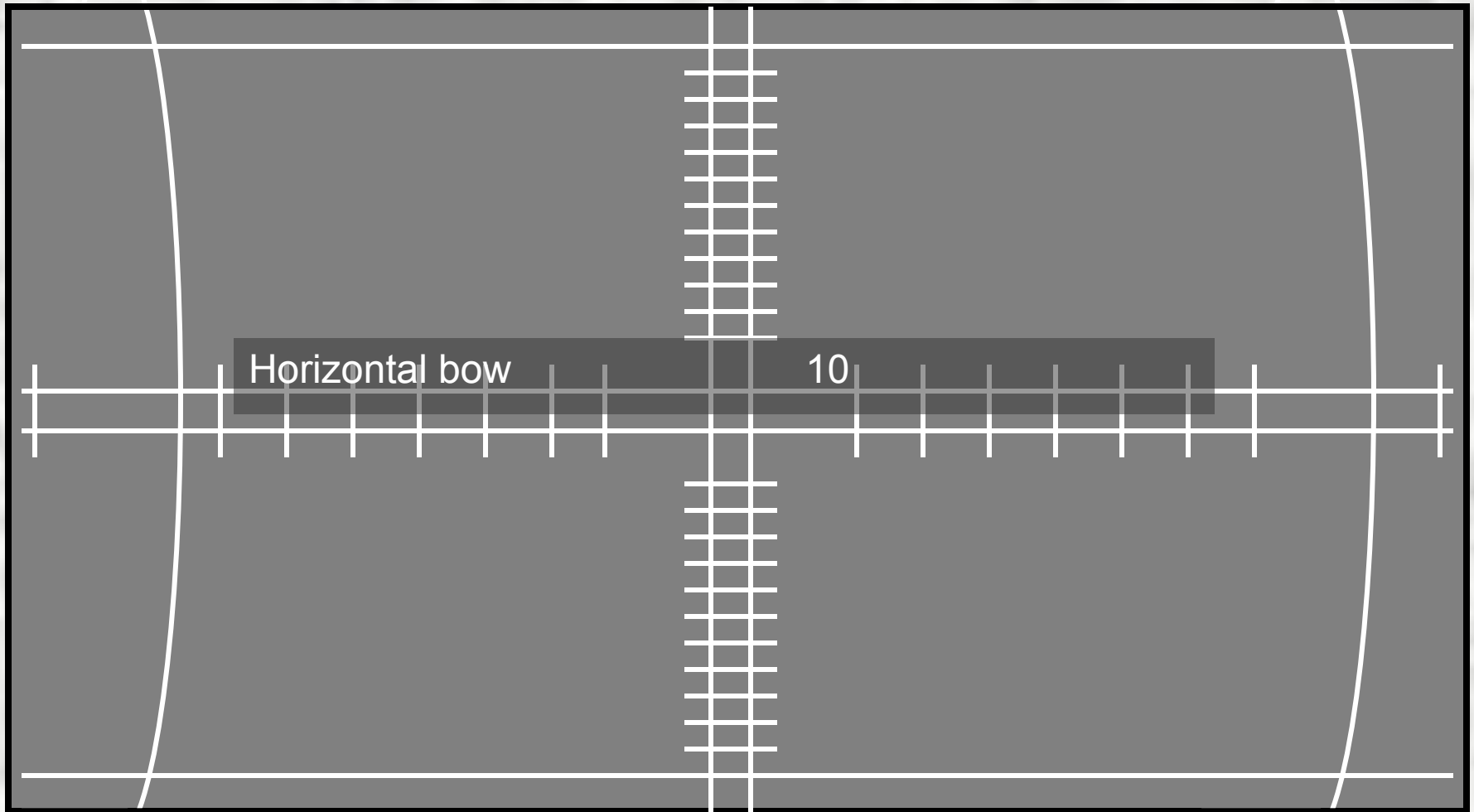
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

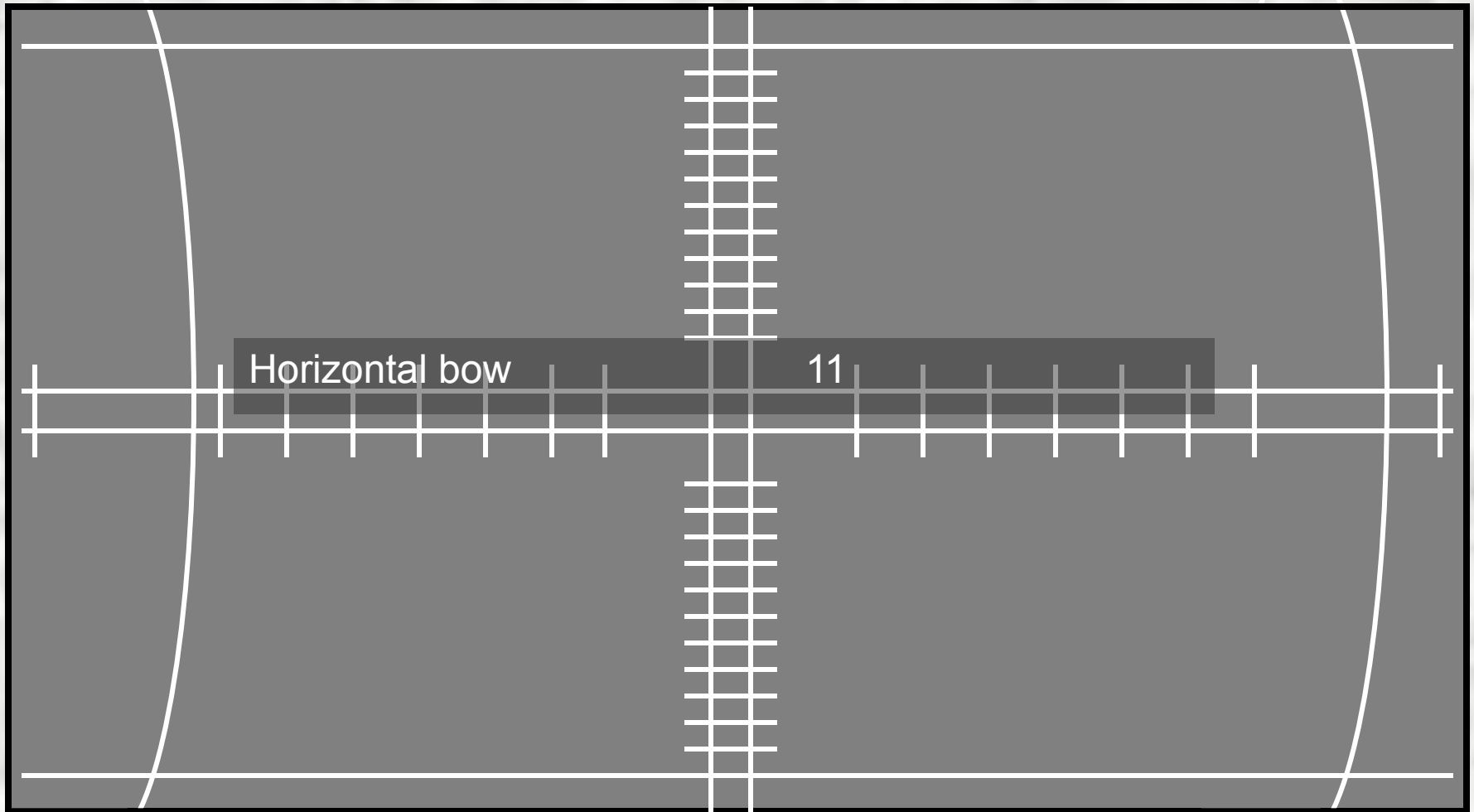
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

Menu



EM2E Service Alignment Menu

The Normal Geometry Adjustment Menu.

Menu



EM2E Service Alignment Menu

The Normal Geometry Adjustment Menu.

Menu



EM2E Service Alignment Menu

The Normal Geometry Adjustment Menu.

Menu



EM2E Service Alignment Menu

The Normal Geometry Adjustment Menu.

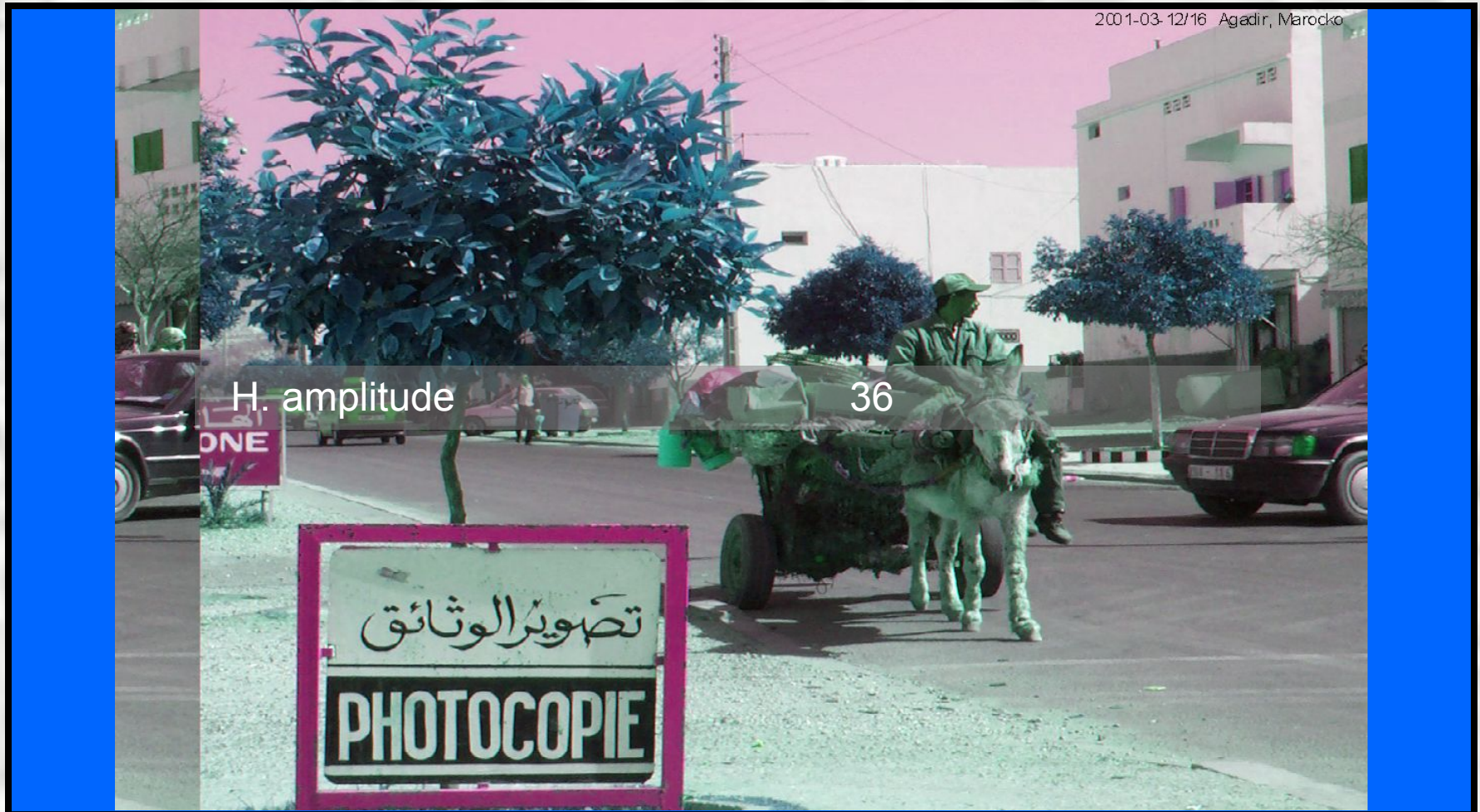
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

Menu



EM2E Service Alignment Menu

The Normal Geometry Adjustment Menu.

Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

Menu



EM2E Service Alignment Menu

The Normal Geometry Adjustment Menu.

Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

Menu

Normal Geometry

Test Pattern

On

V. Slope

42

H. shift

36

H. amplitude

27

East/West Parabola

15

Upper East/West corner

33

Lower East/West corner

28

East/West Trapezium

32

Horizontal parallelogram

8

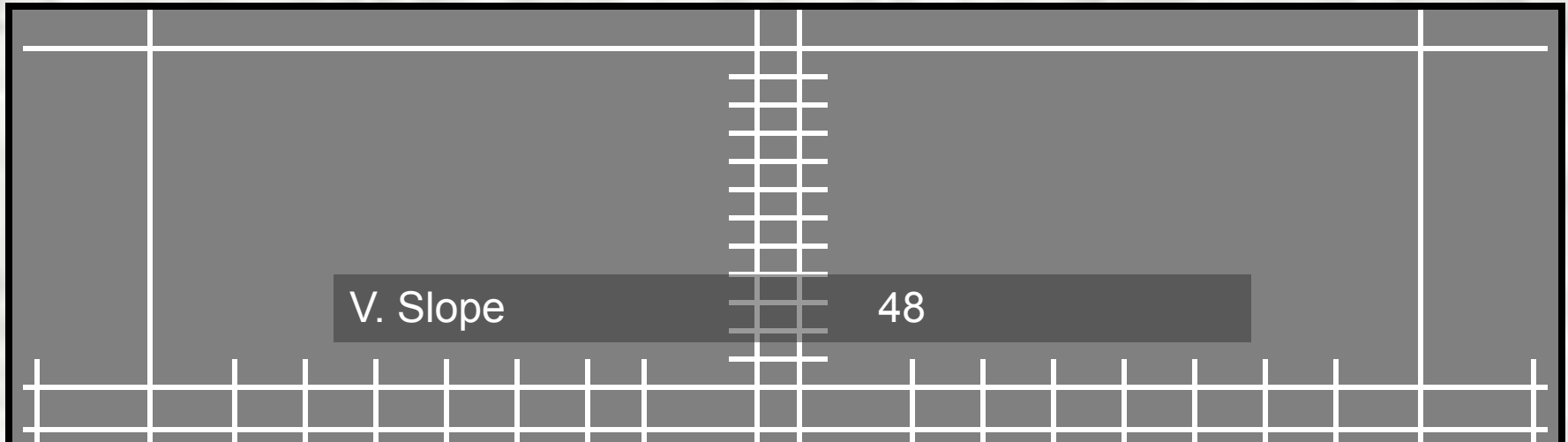
Horizontal bow

8

EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

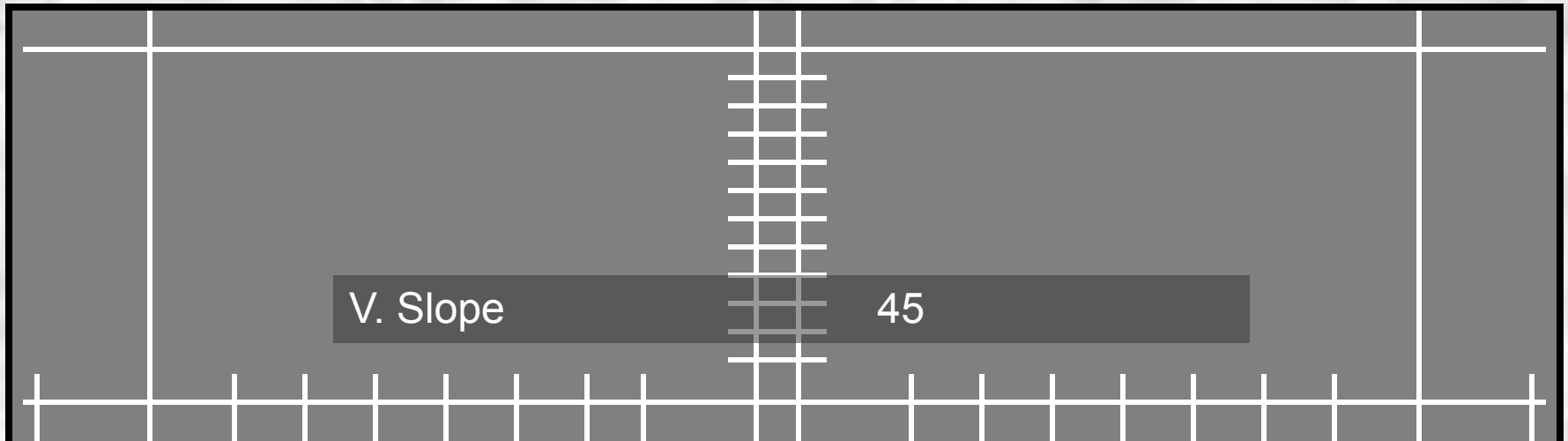
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment* Menu.

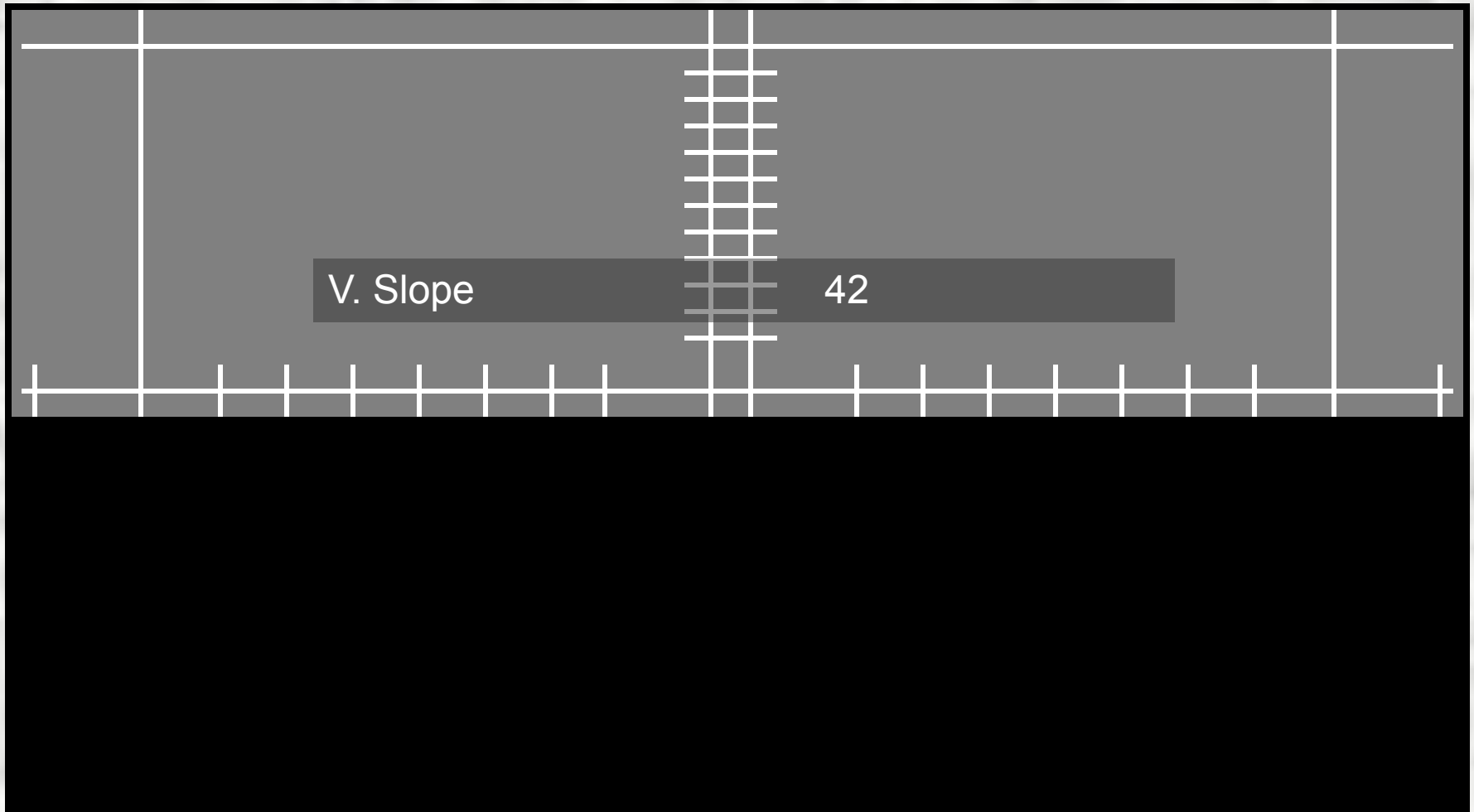
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

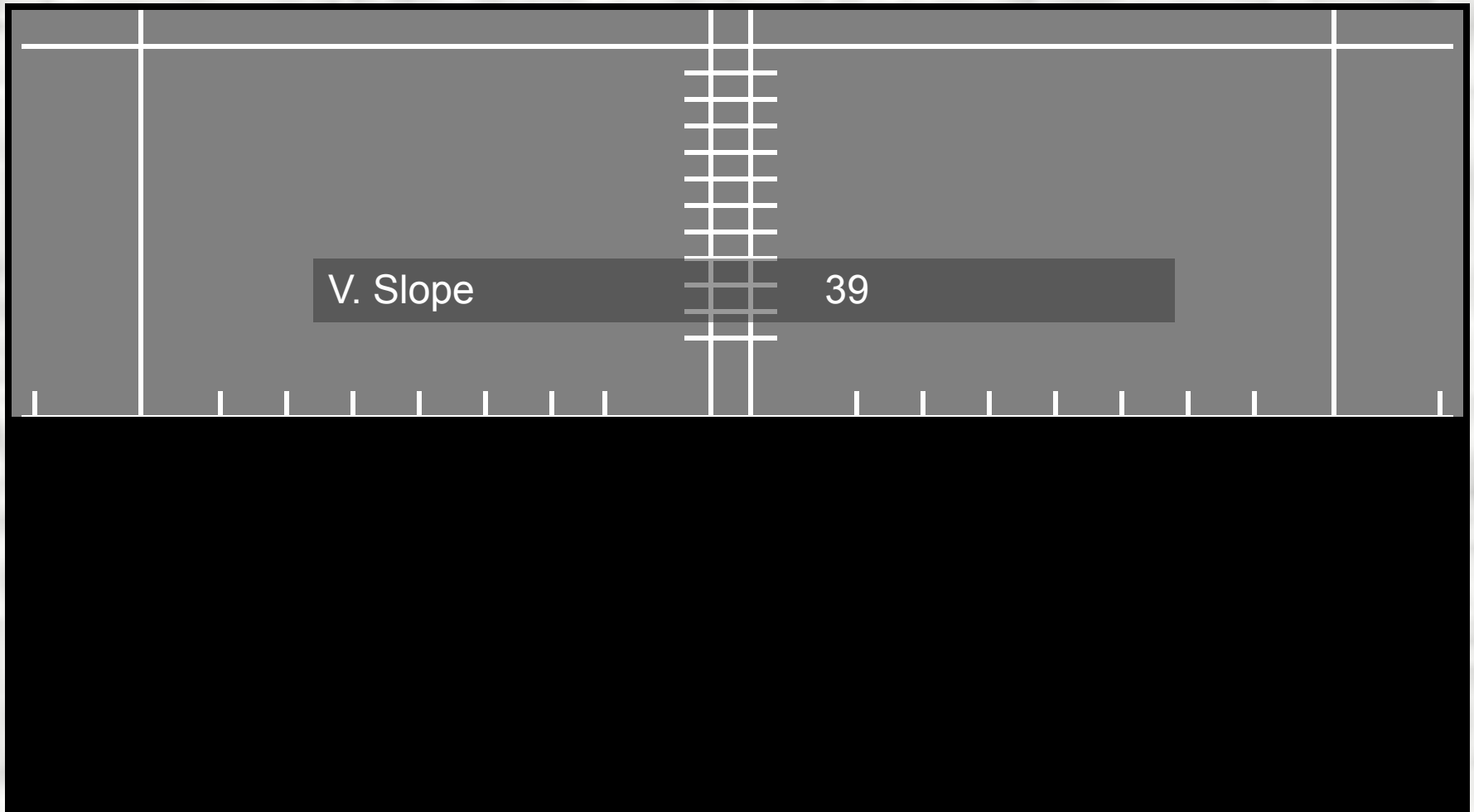
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

Menu



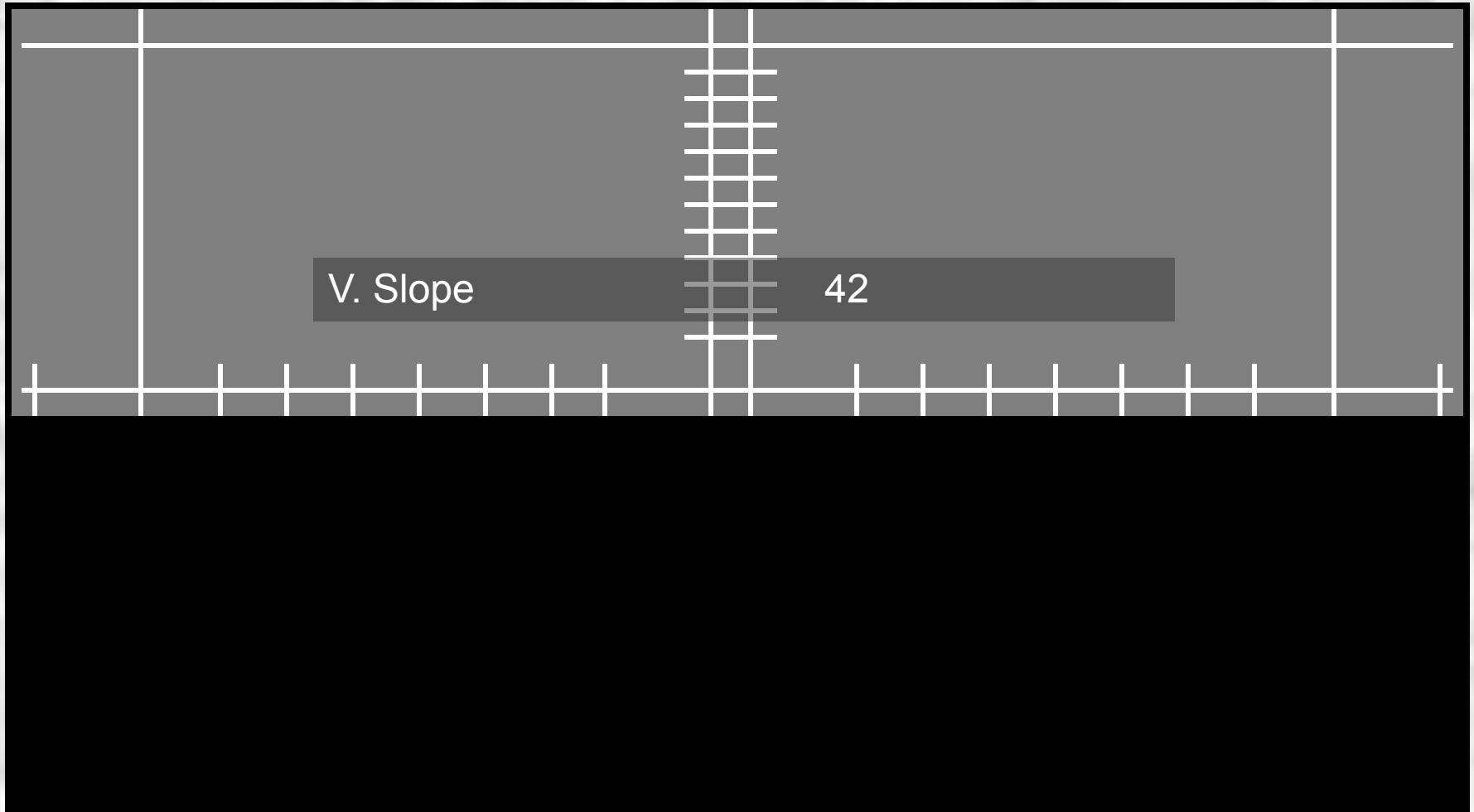
EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

Menu

V. Slope

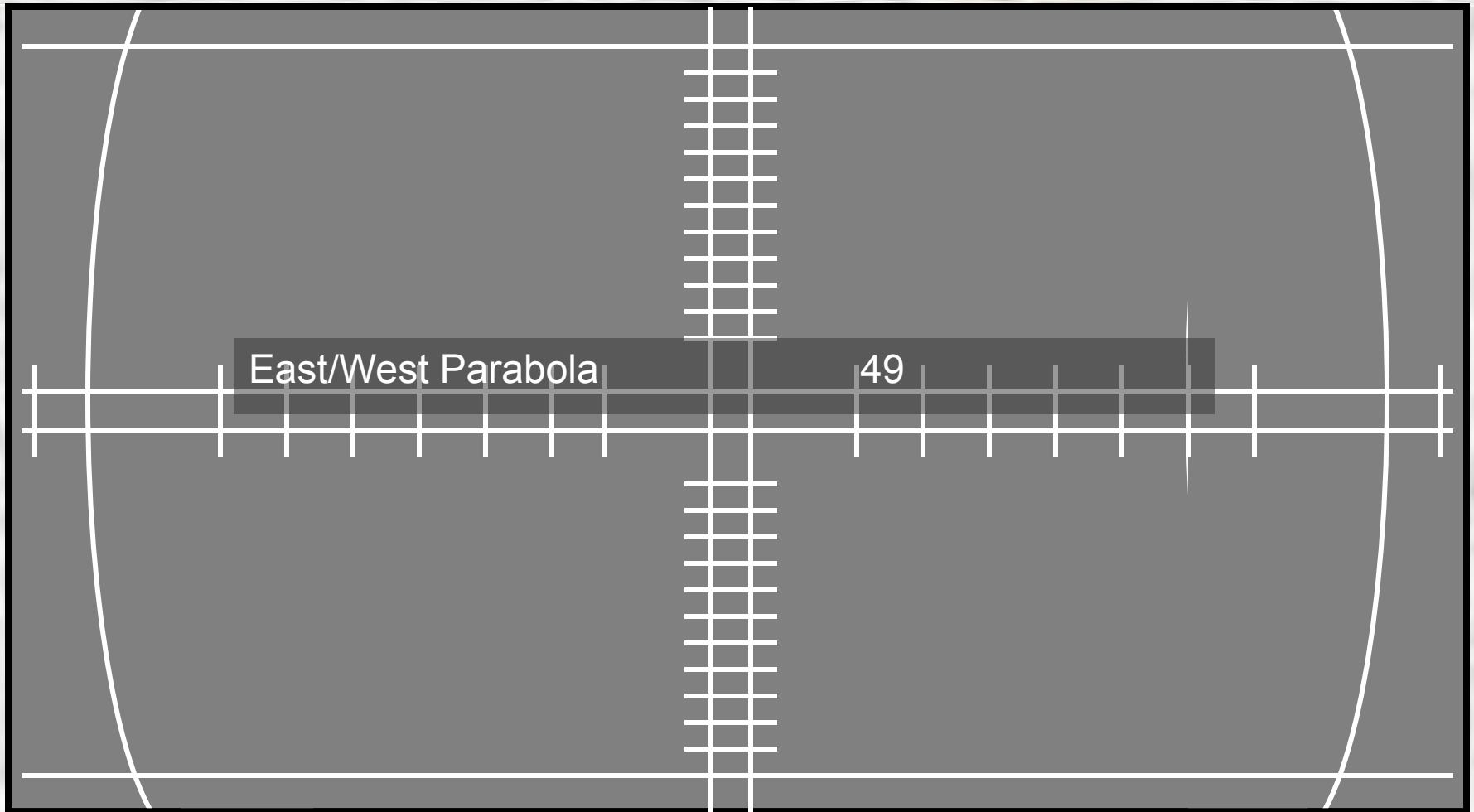
42



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

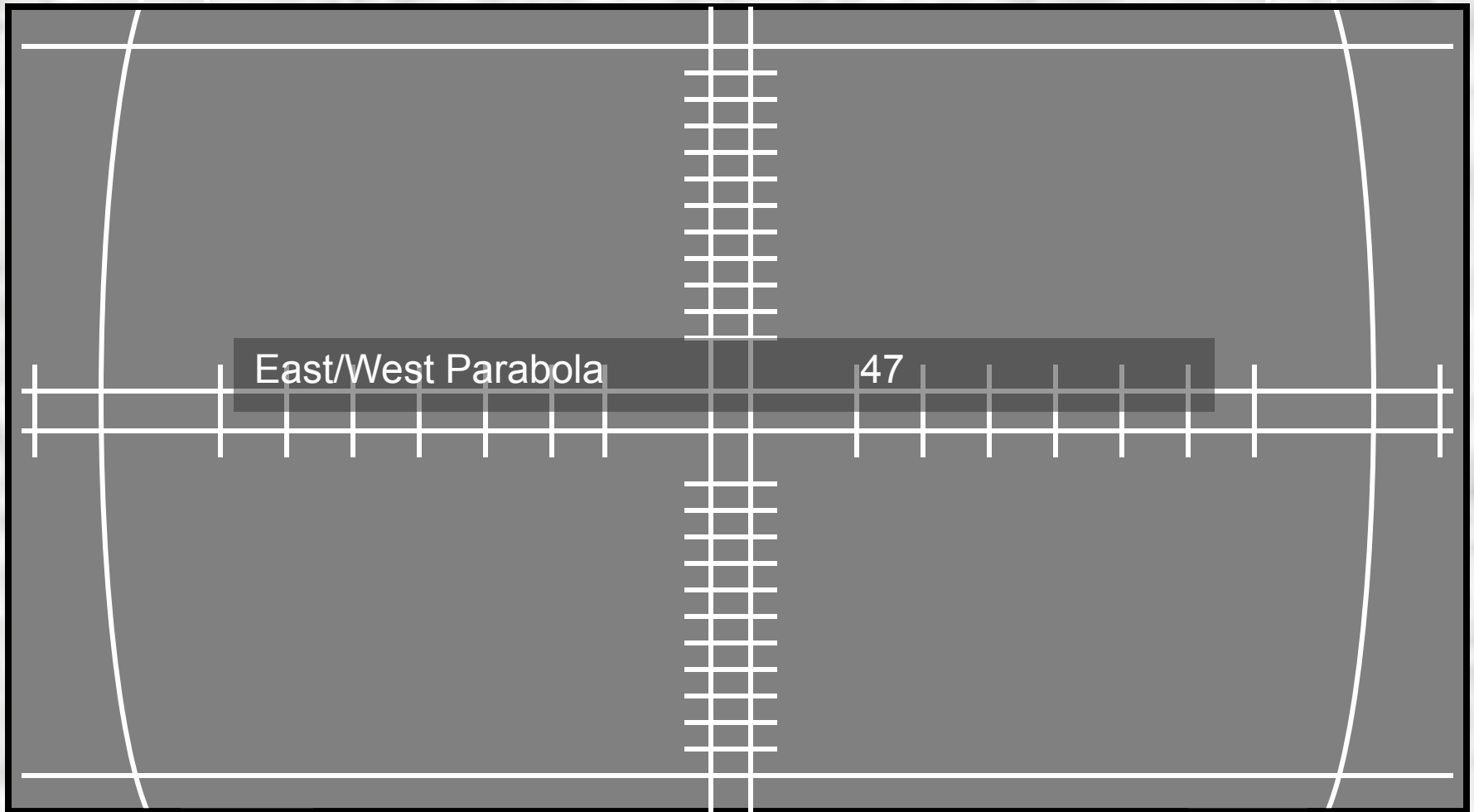
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

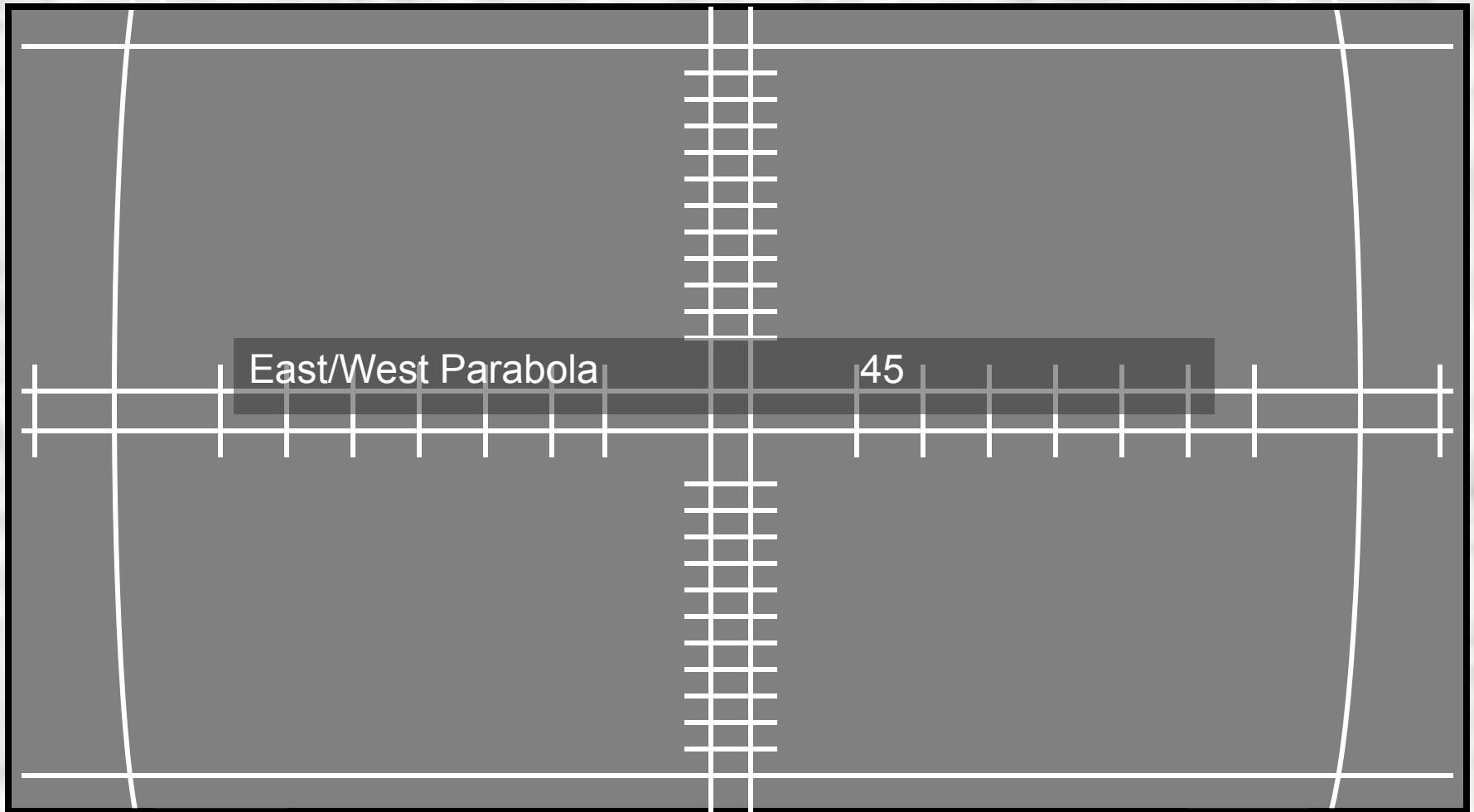
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

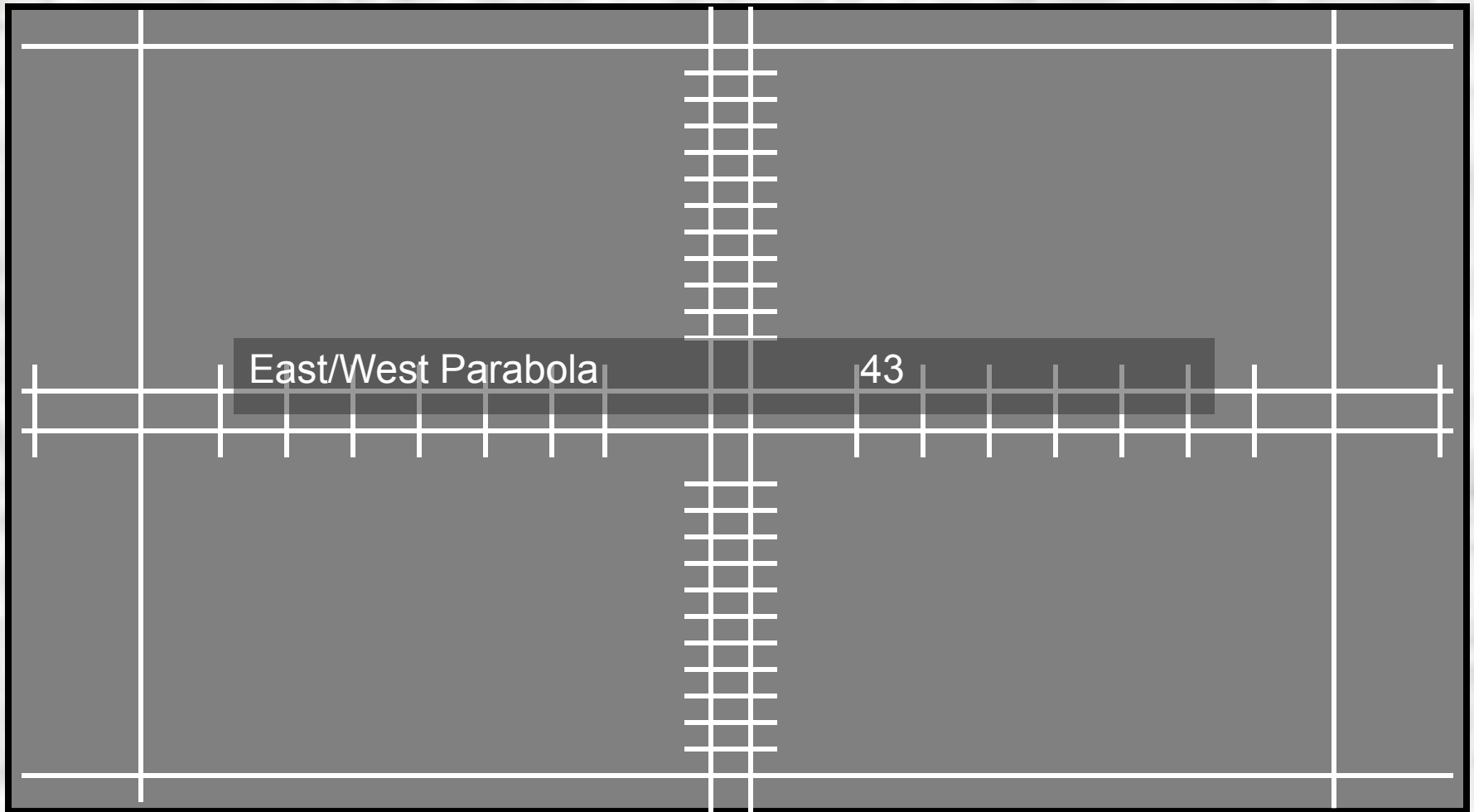
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

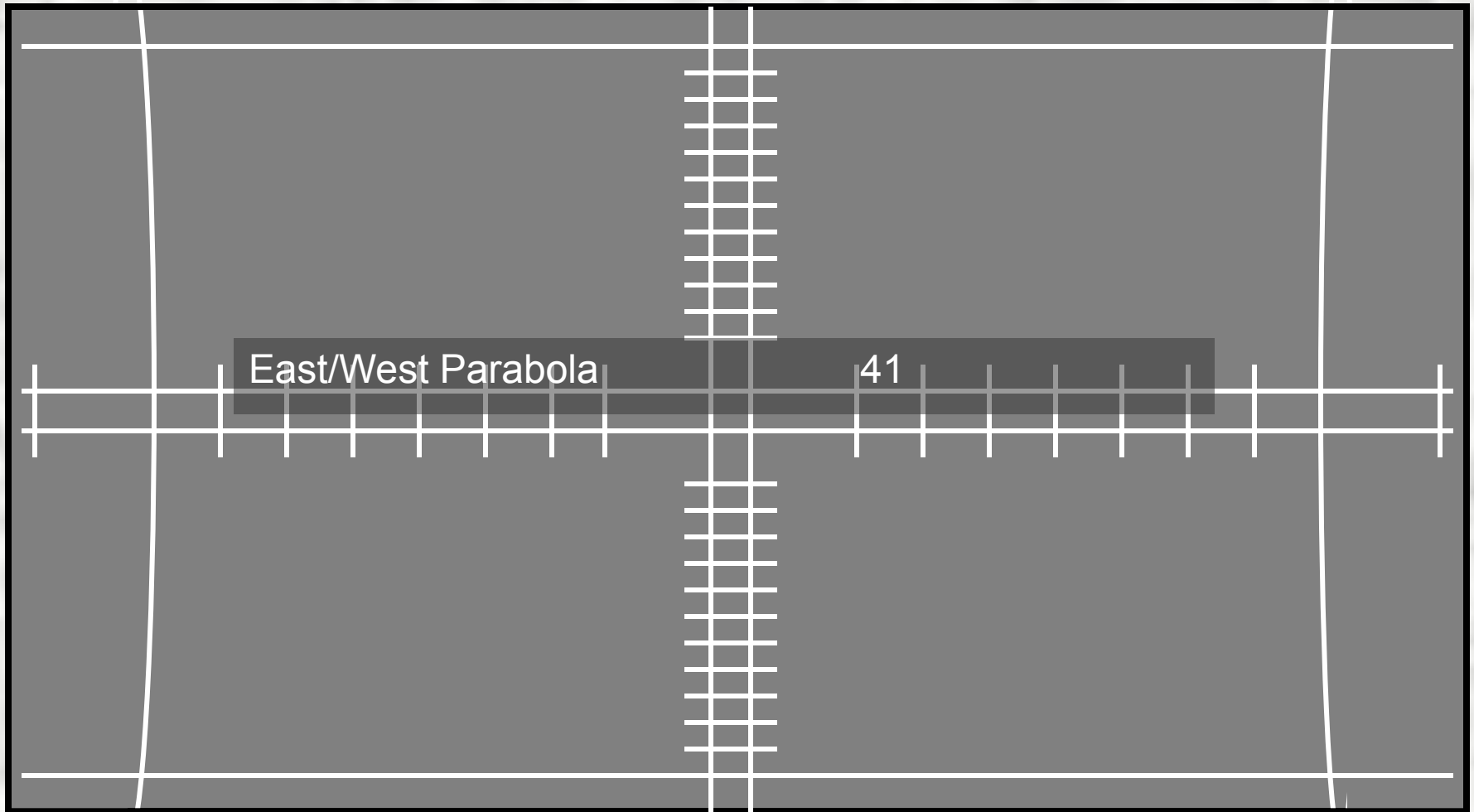
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

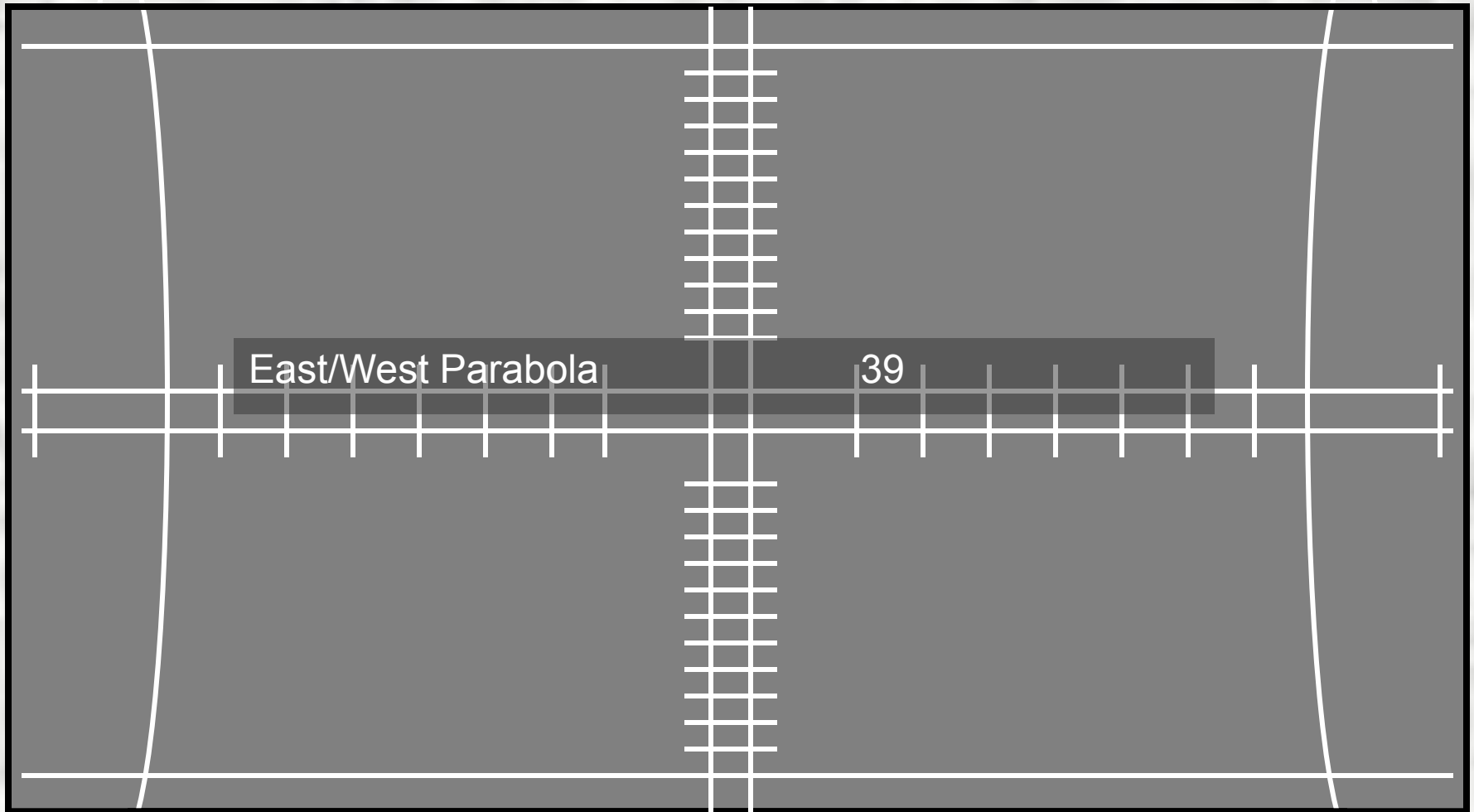
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

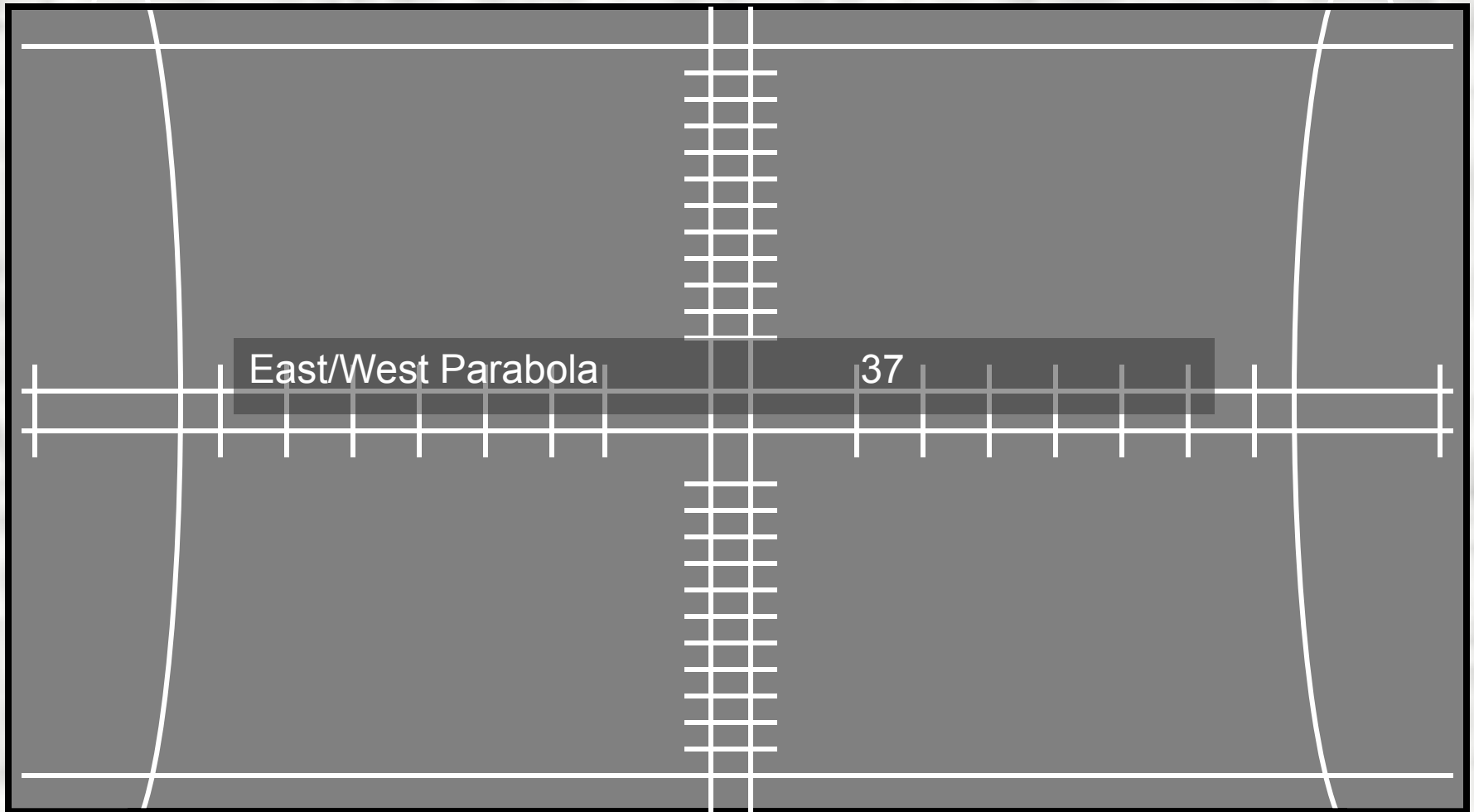
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

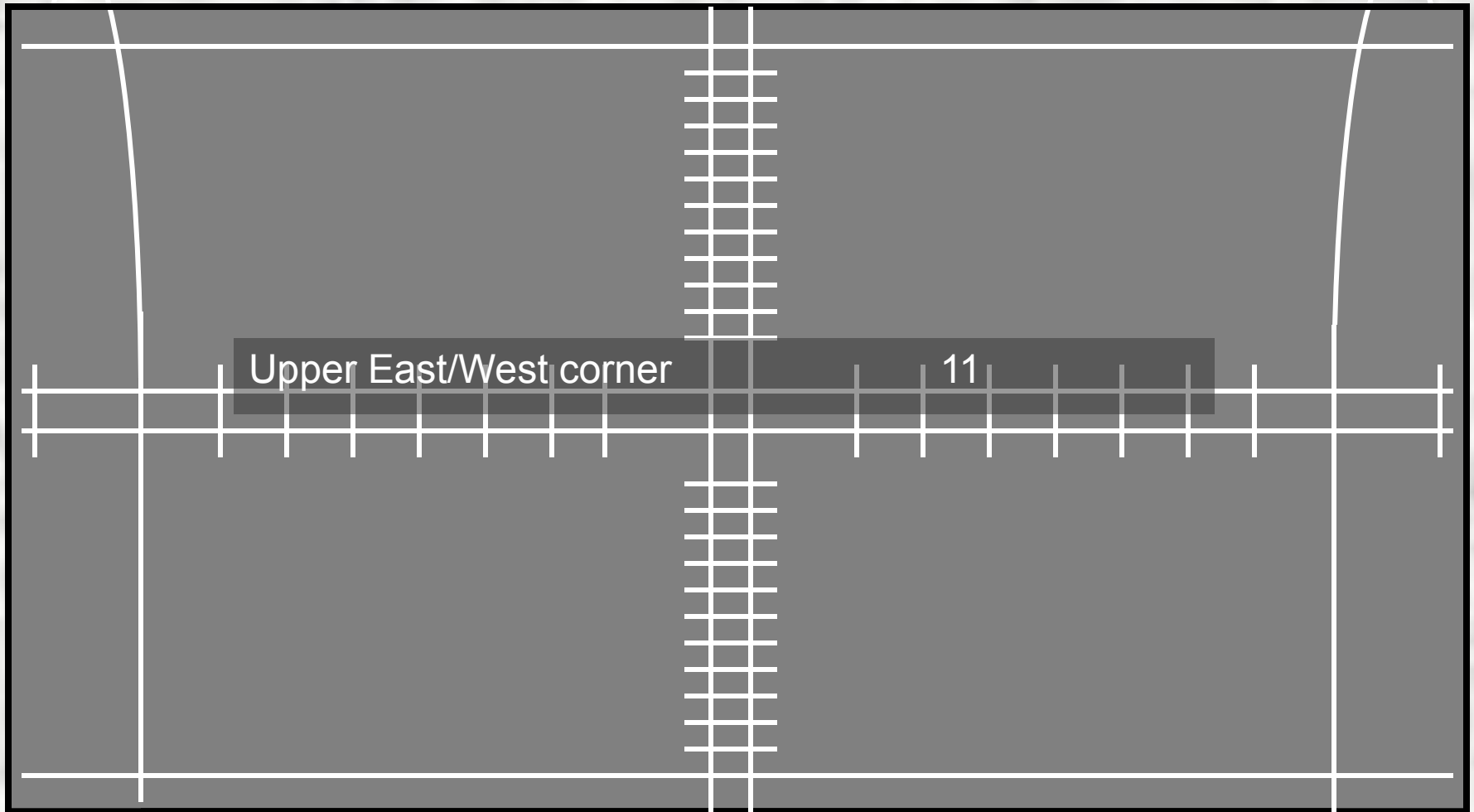
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

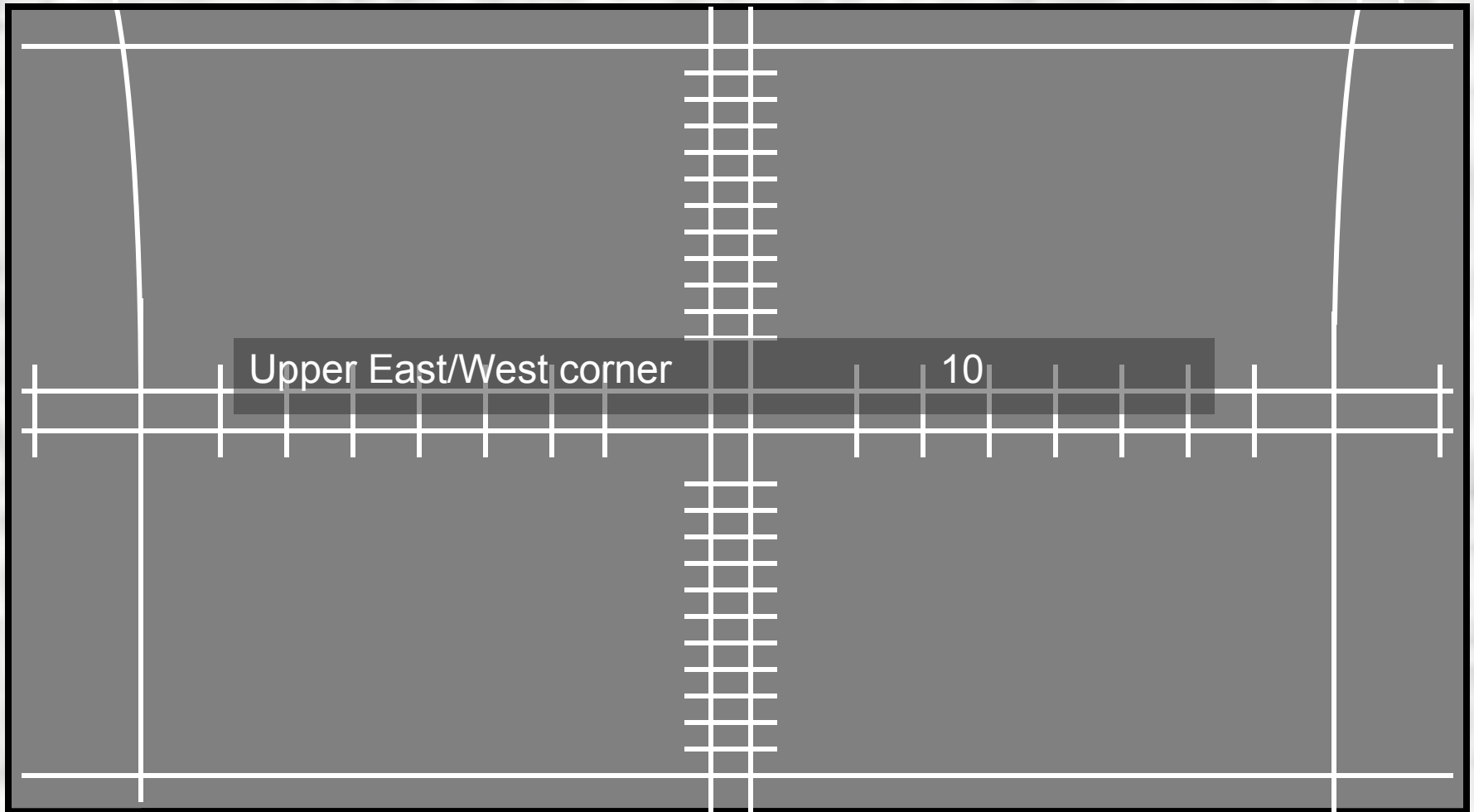
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

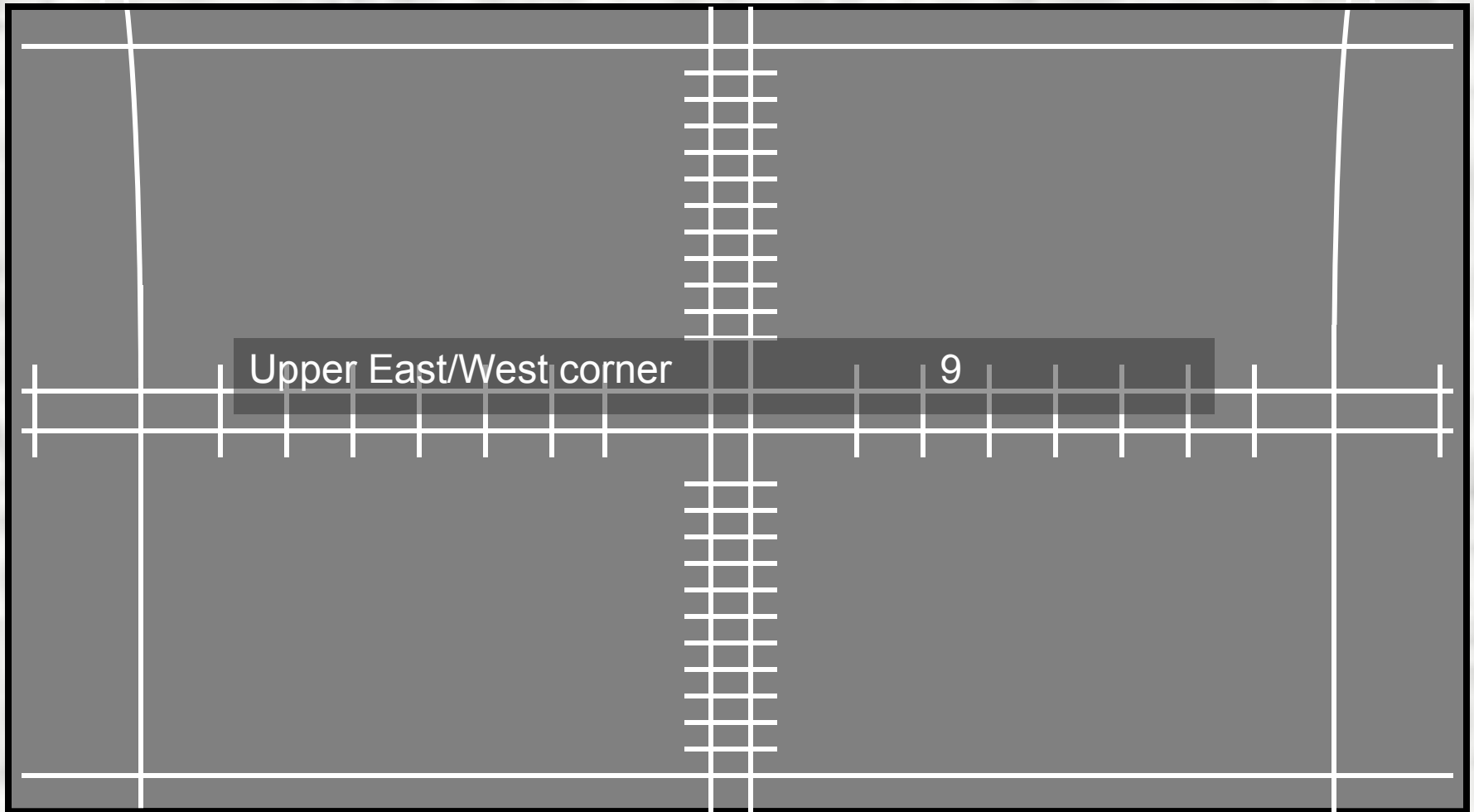
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

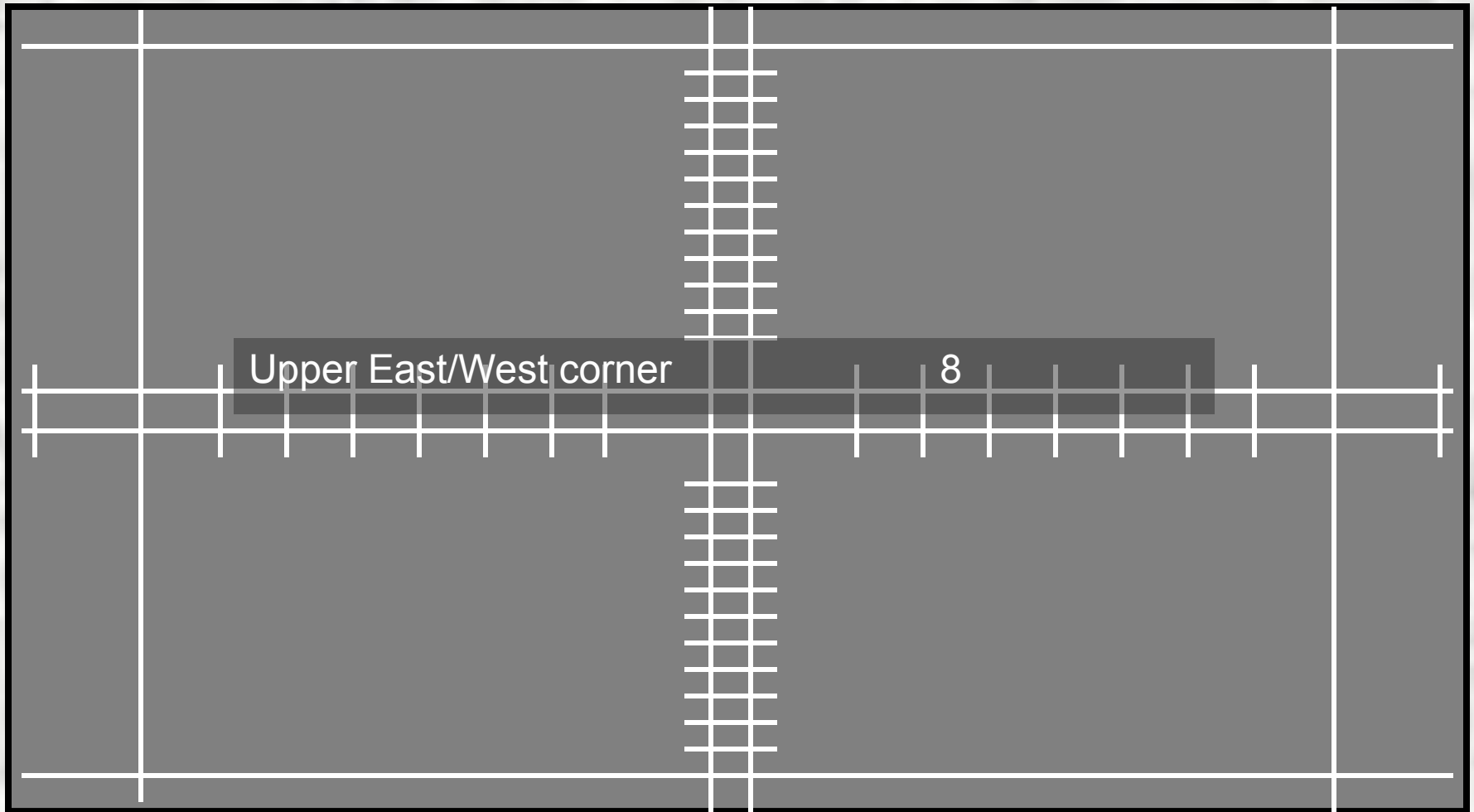
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

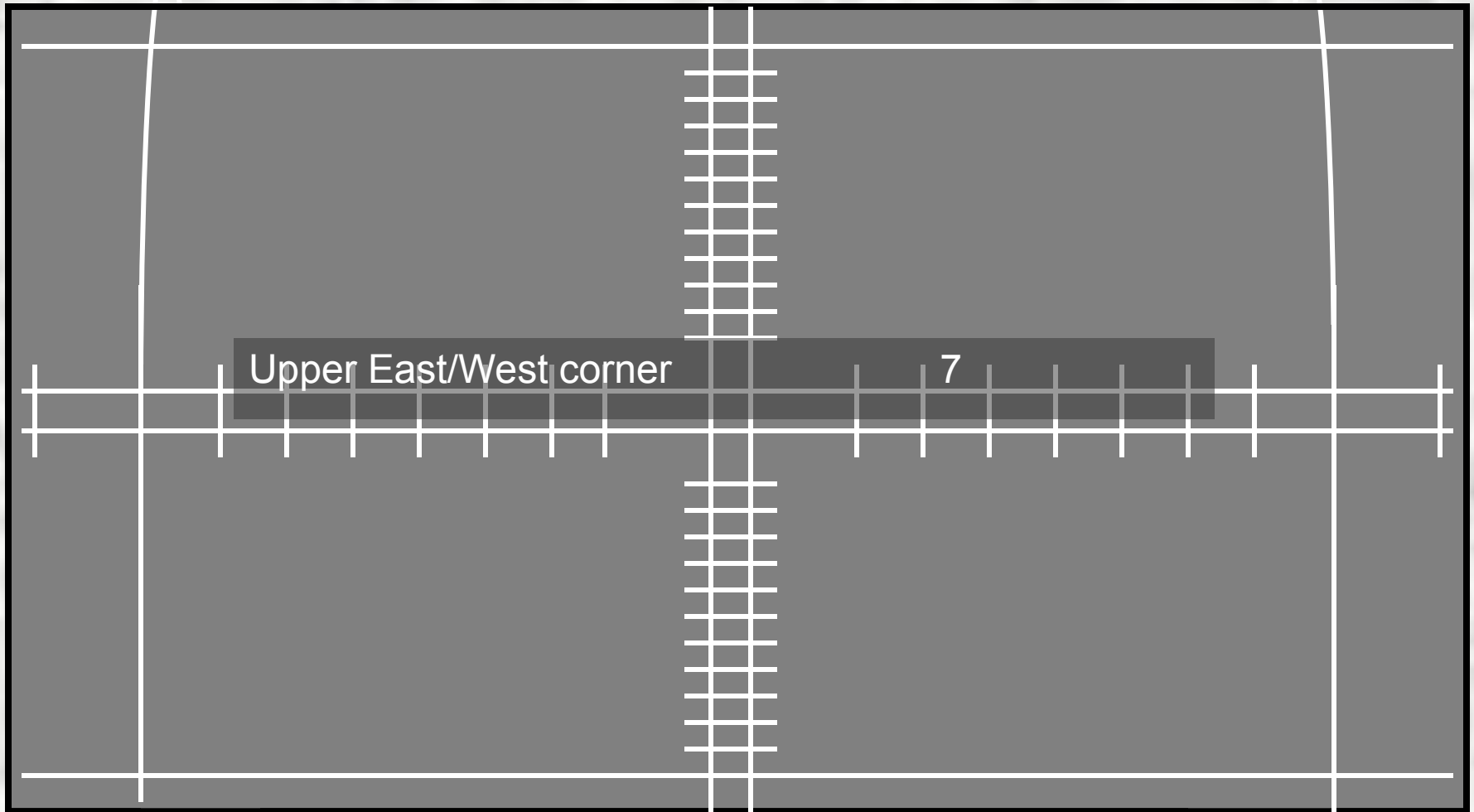
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

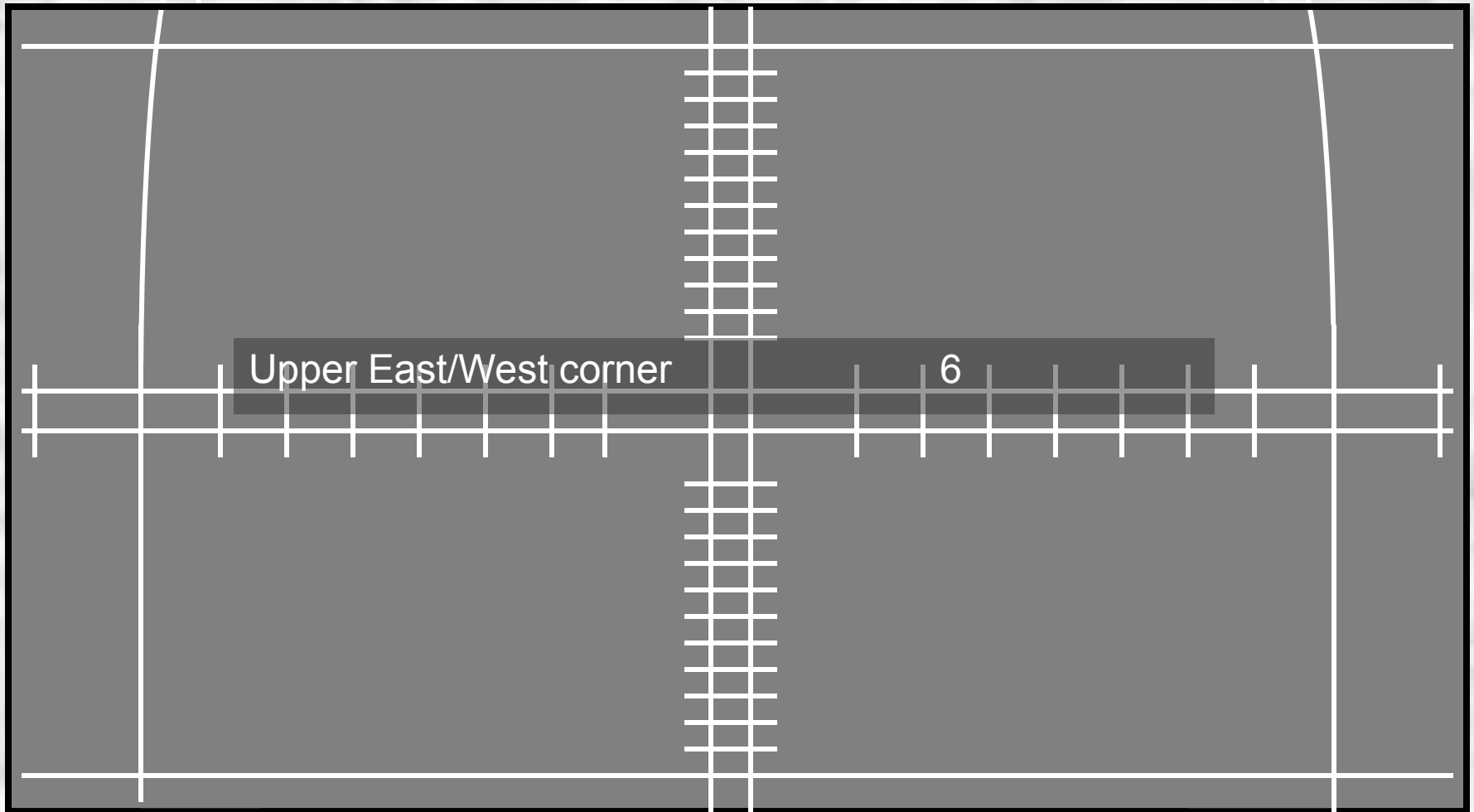
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

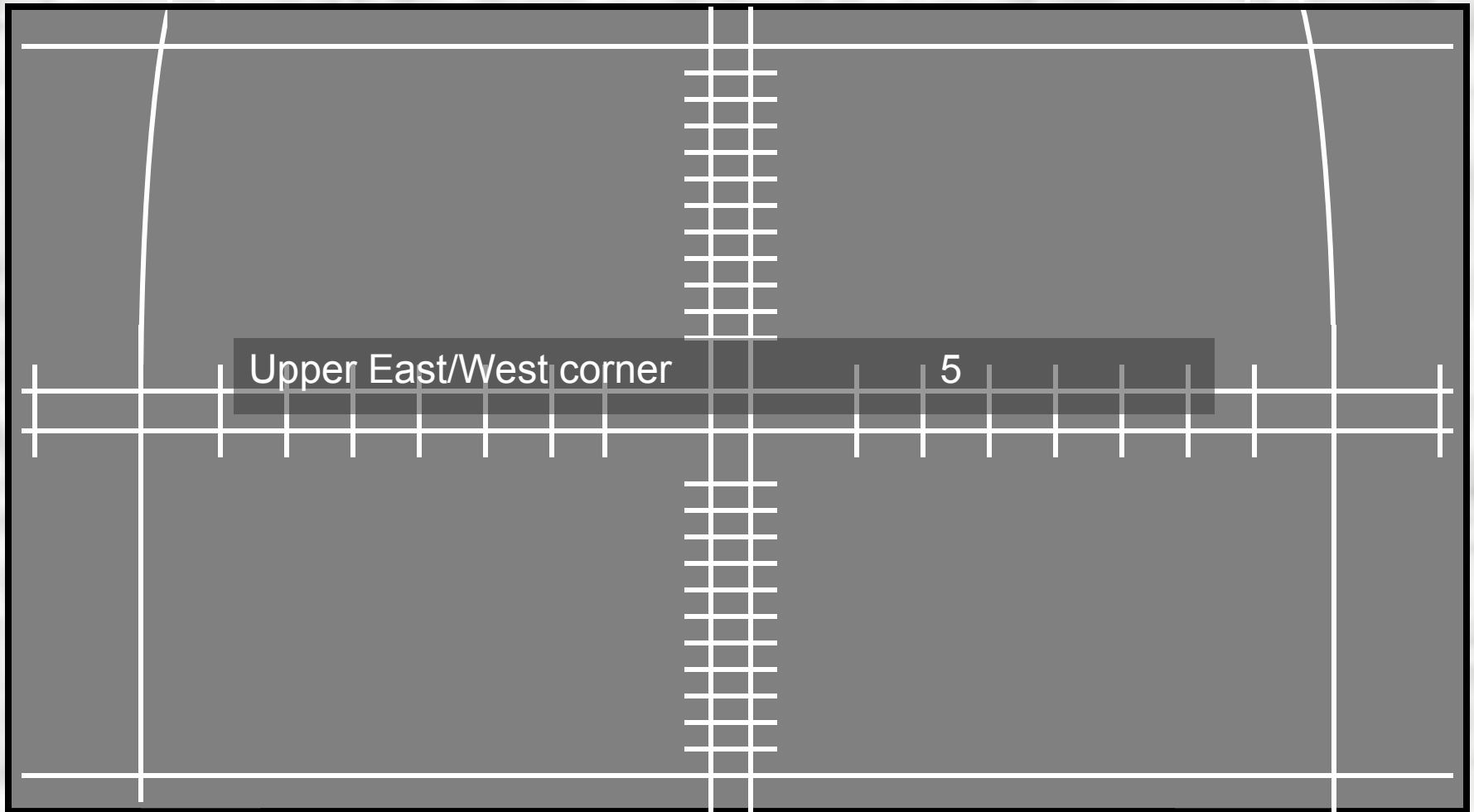
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

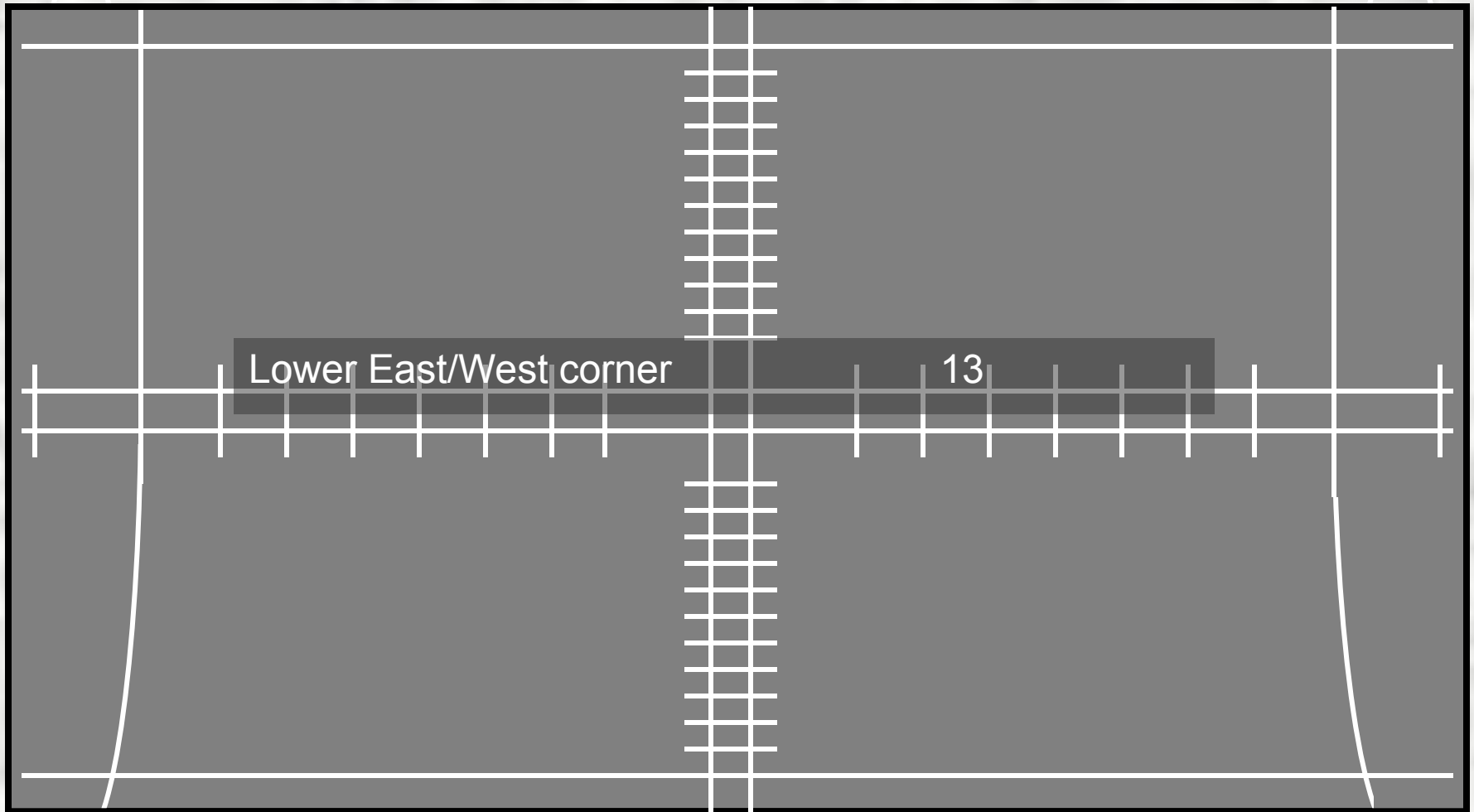
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment* Menu.

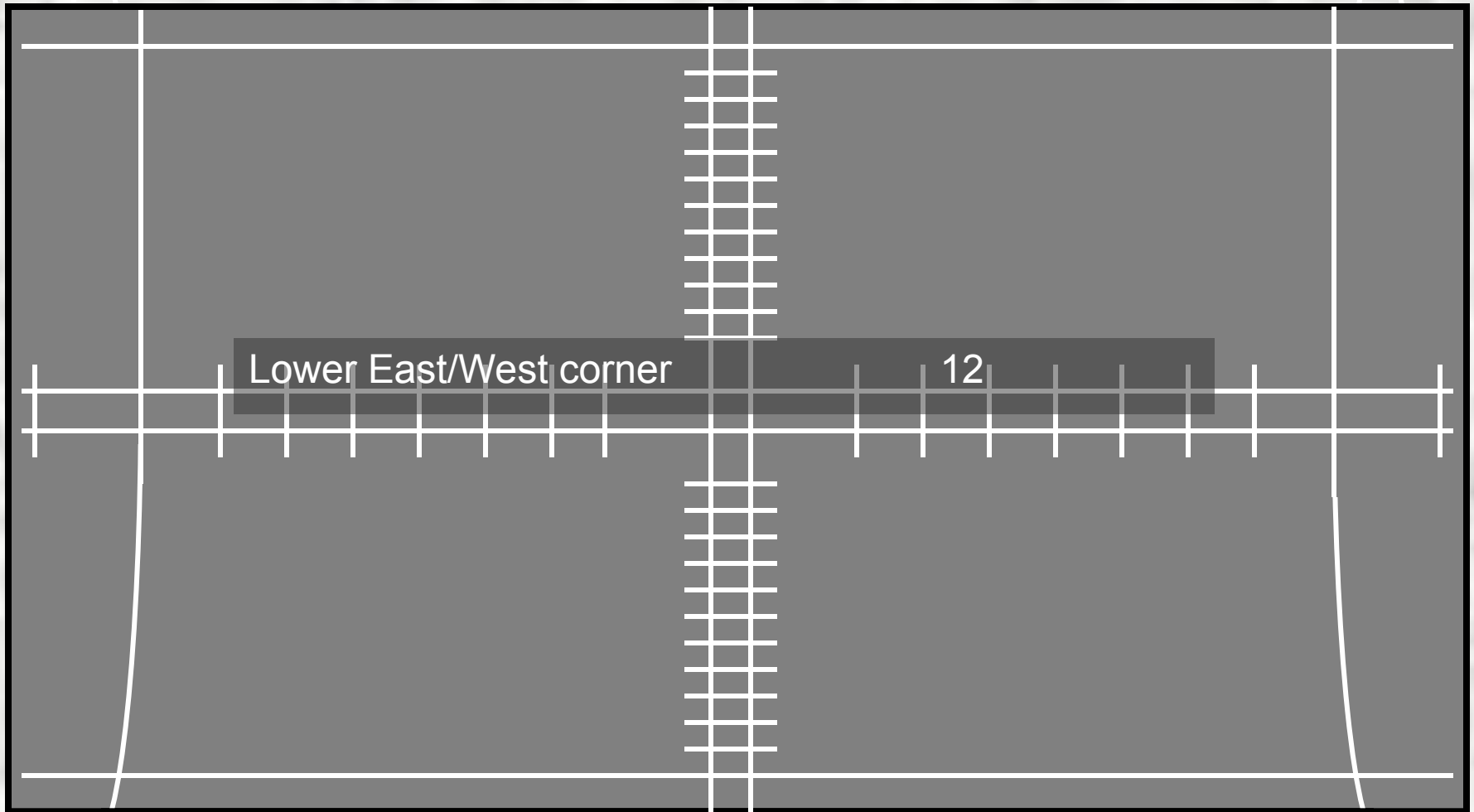
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

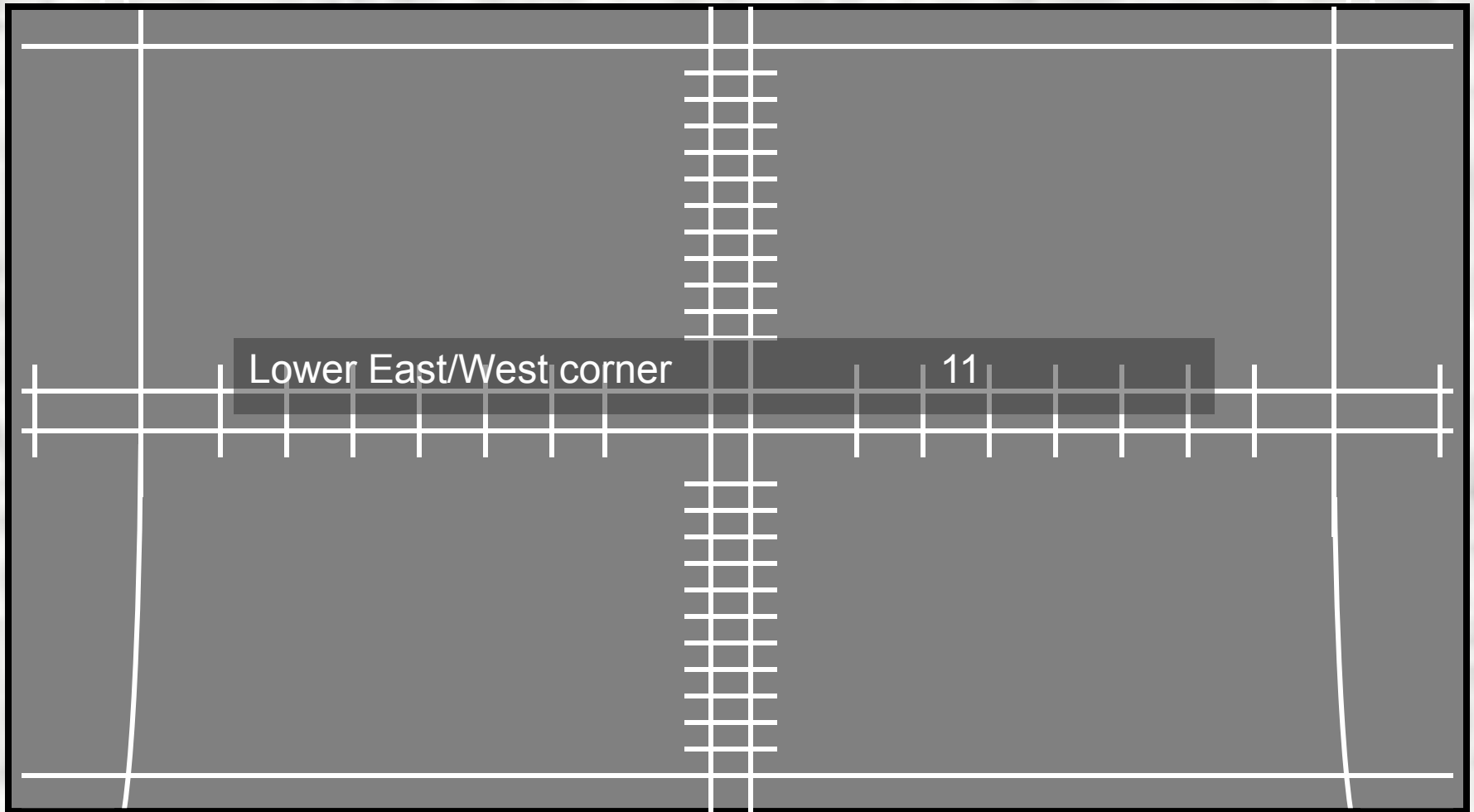
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

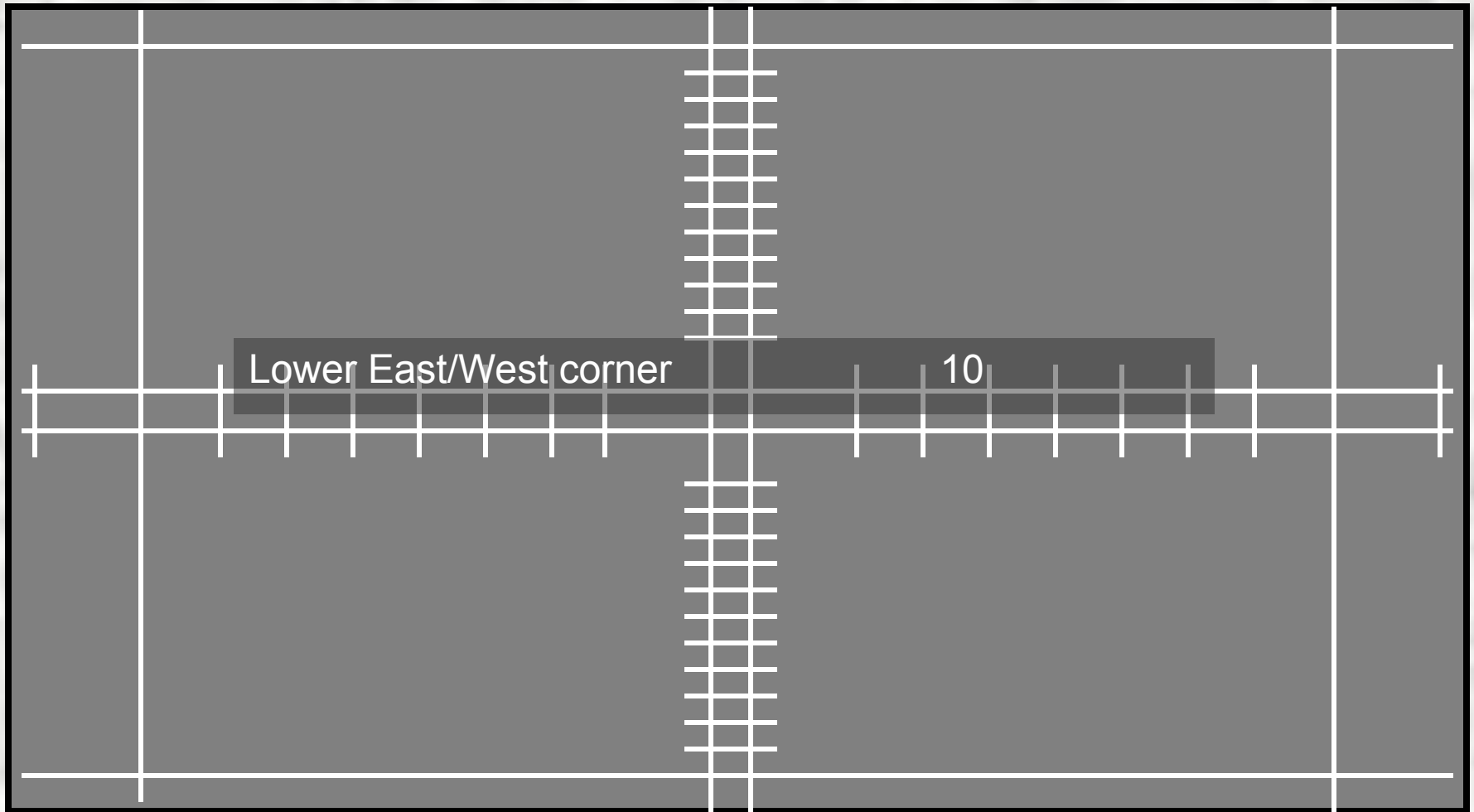
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

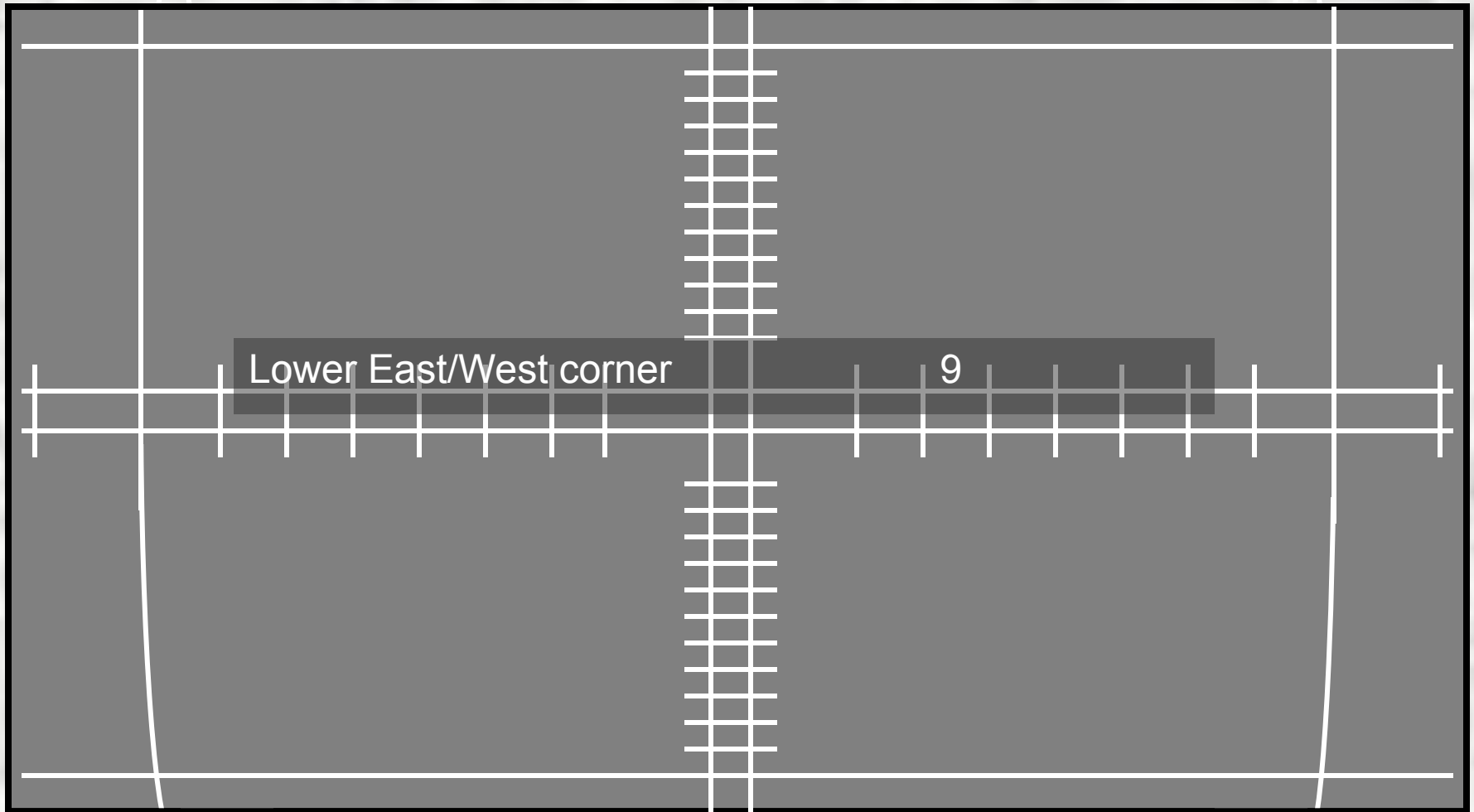
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

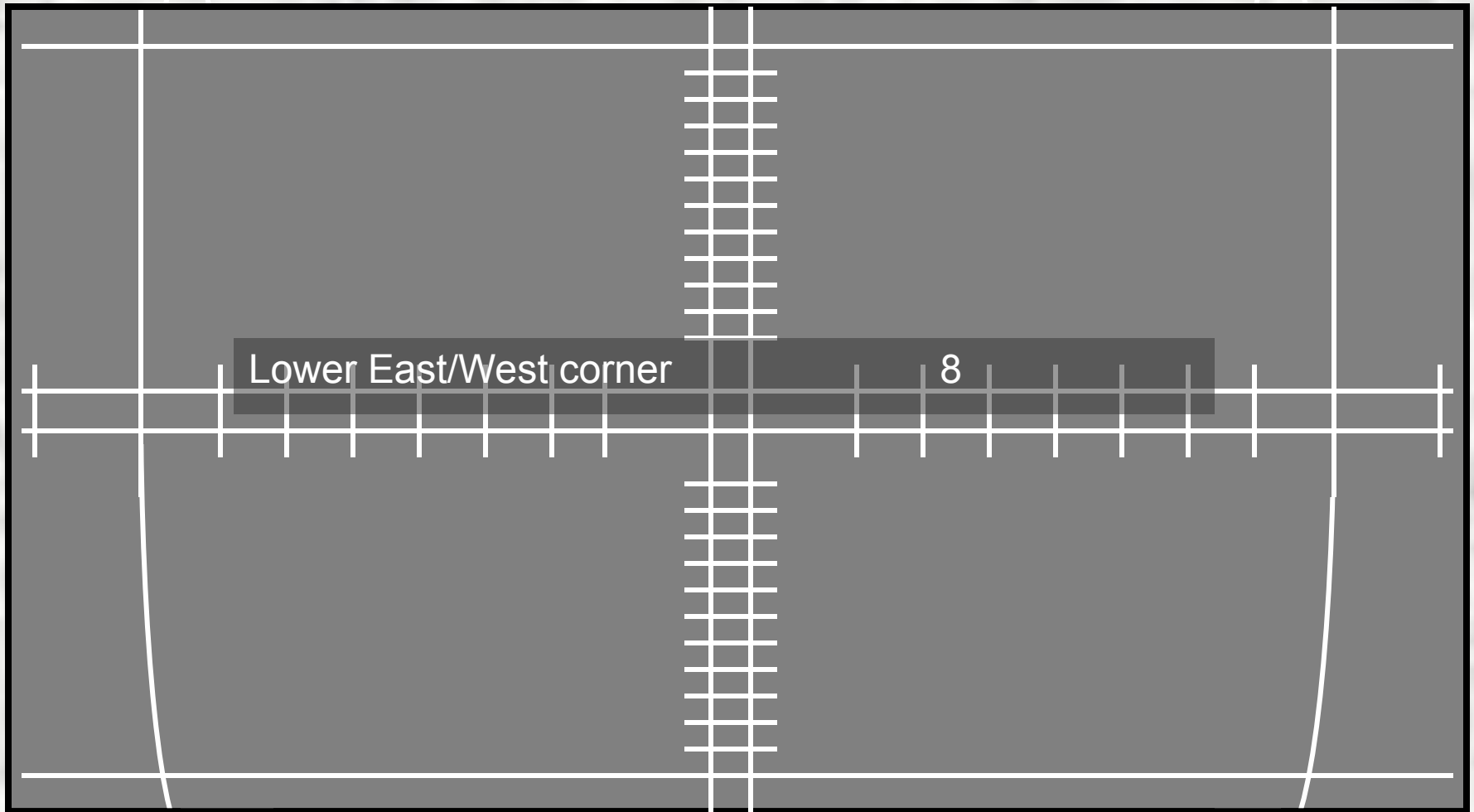
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

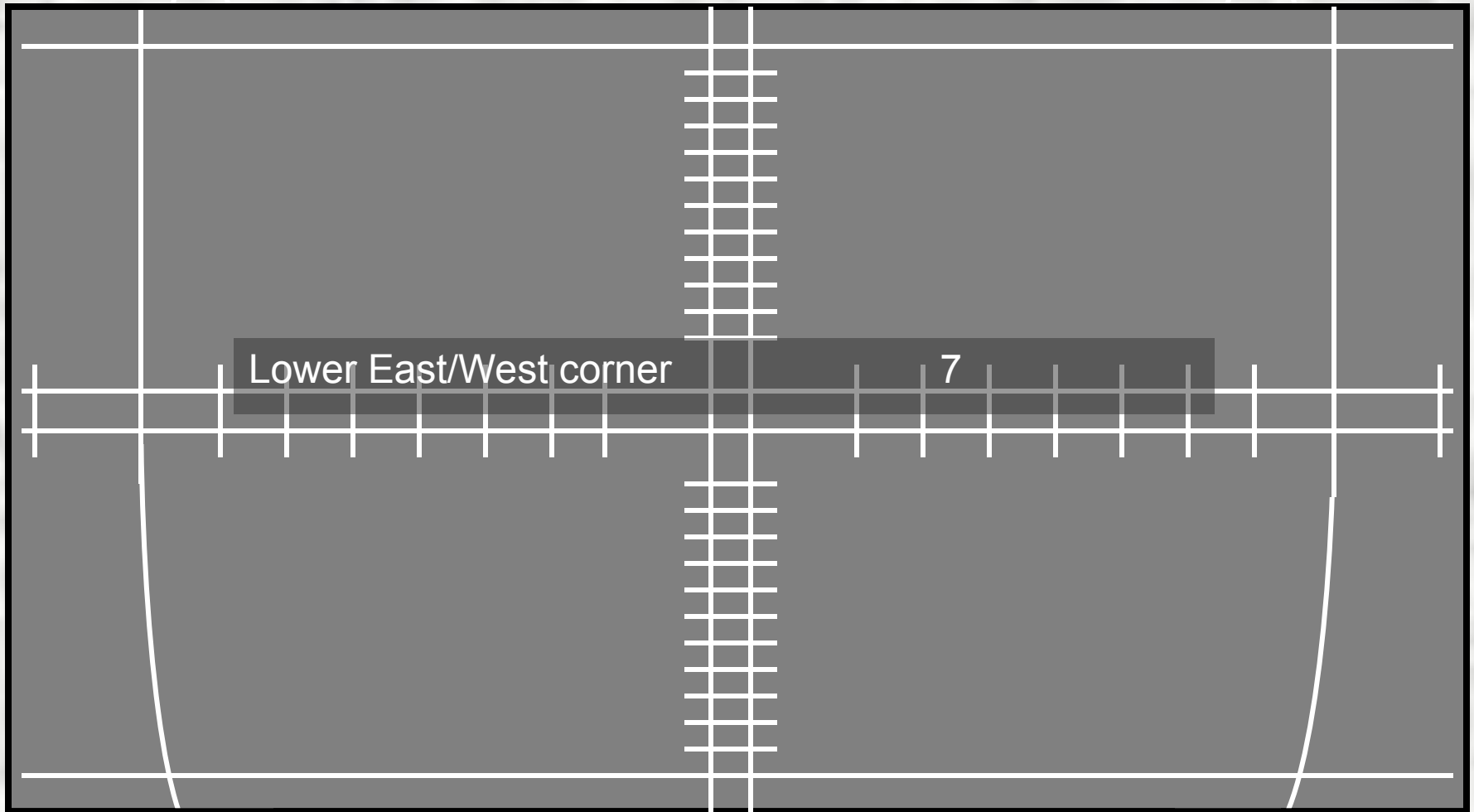
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

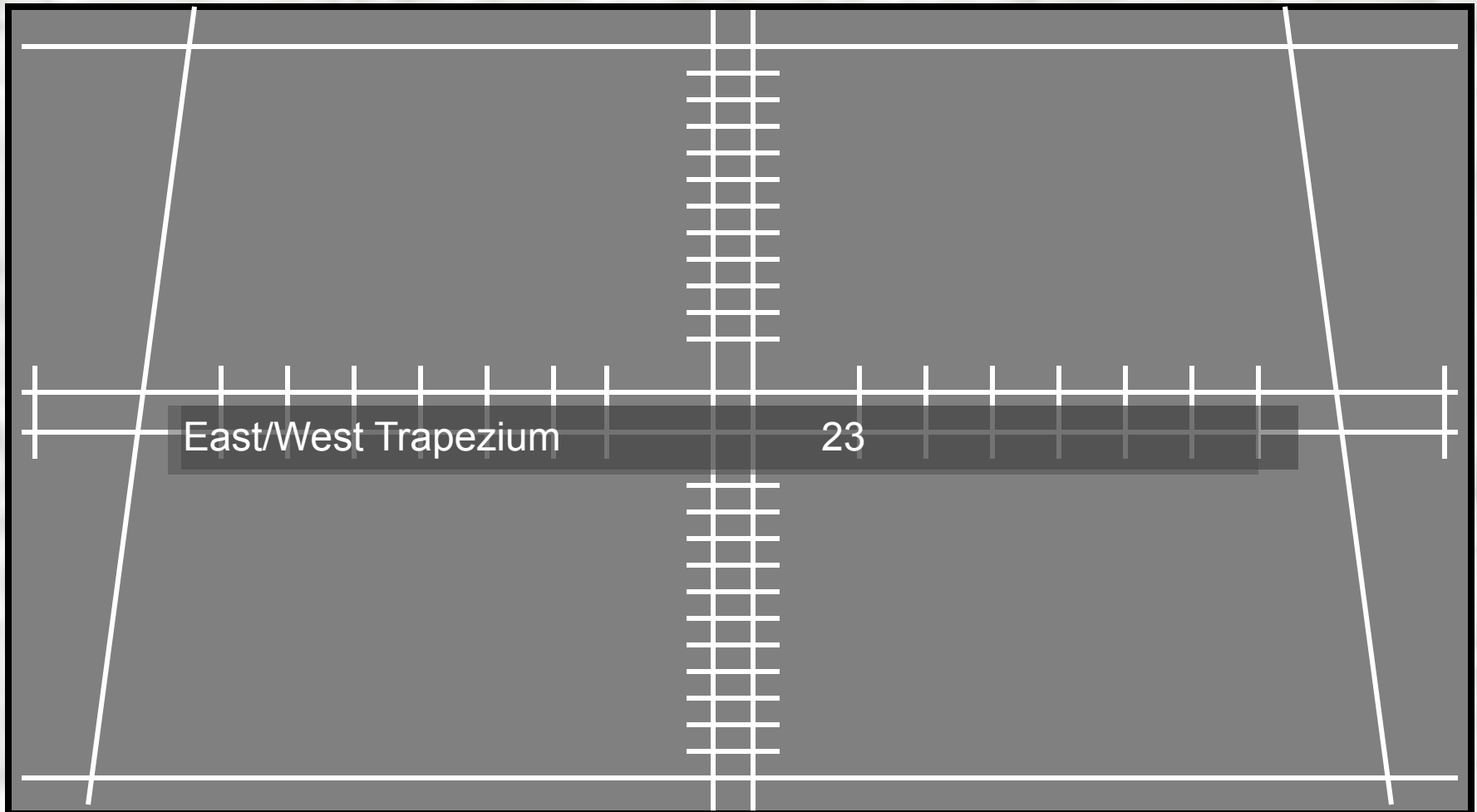
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

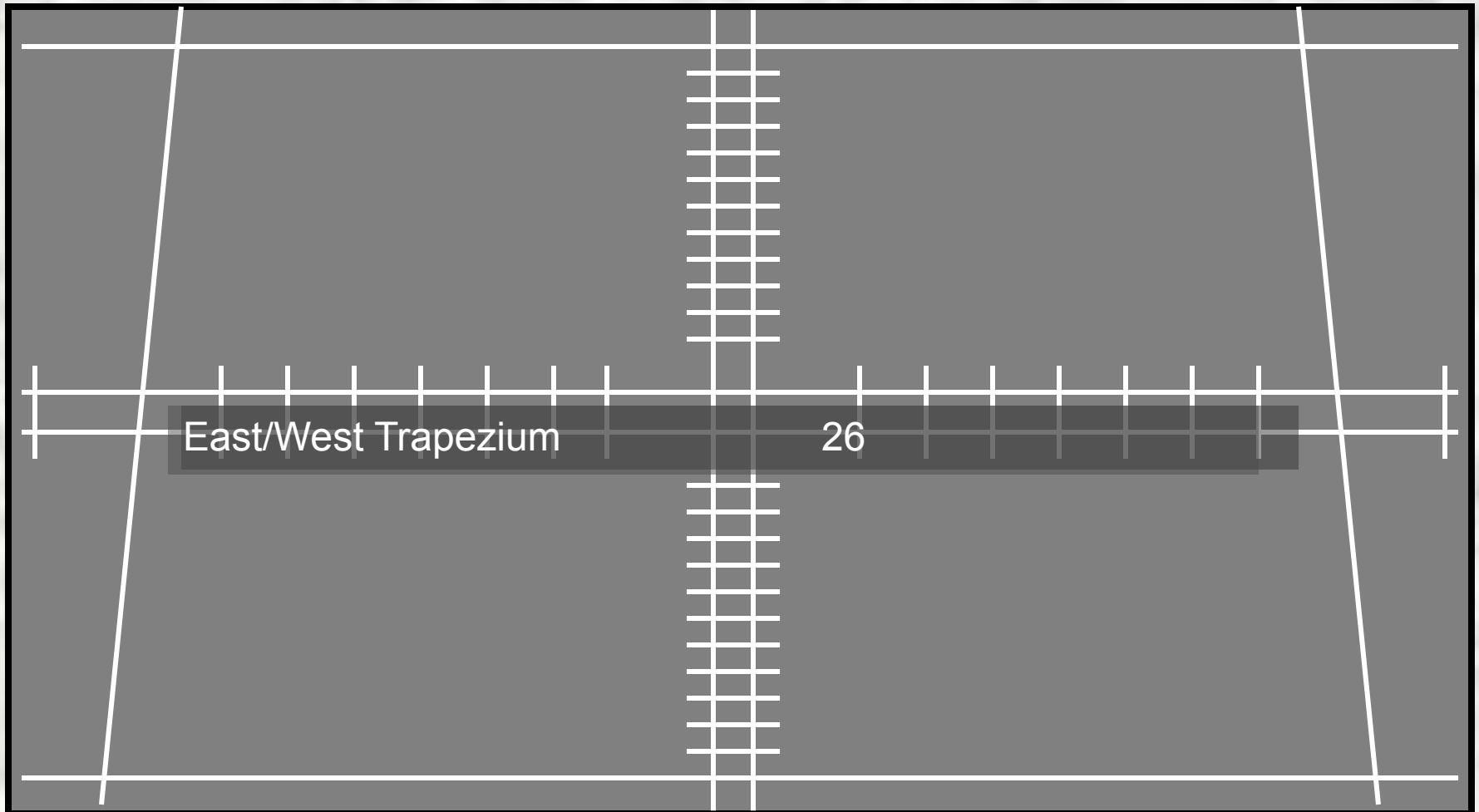
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

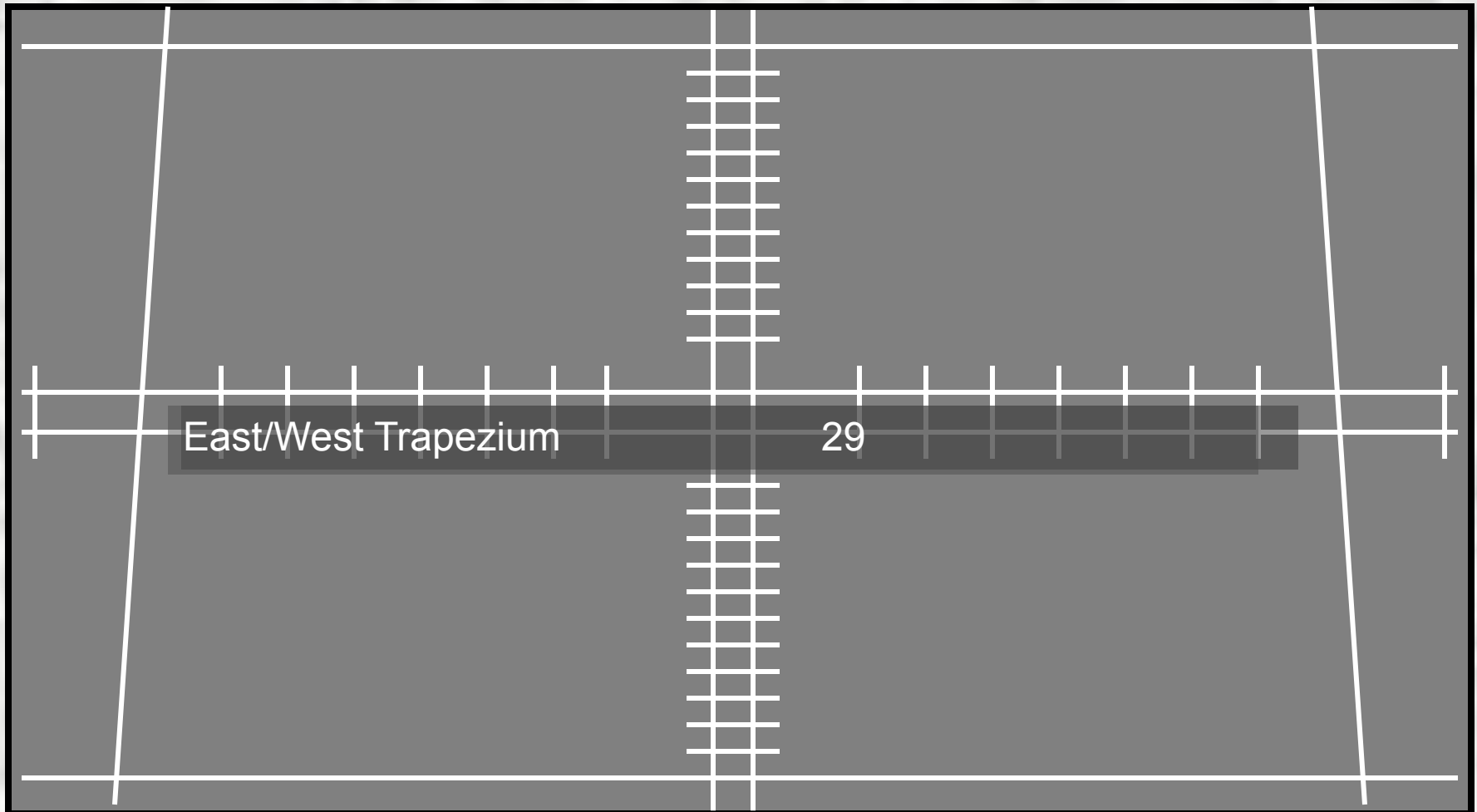
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

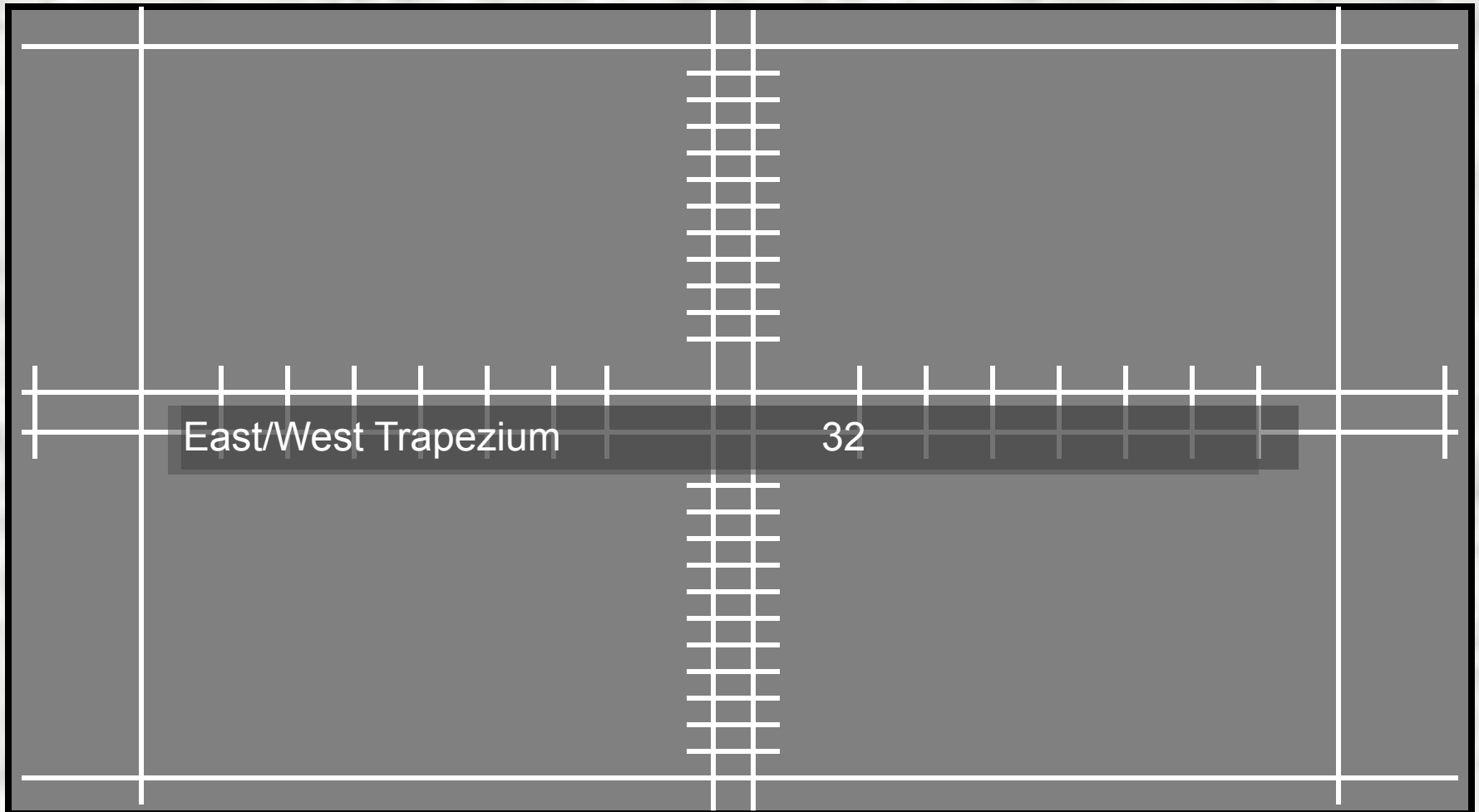
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

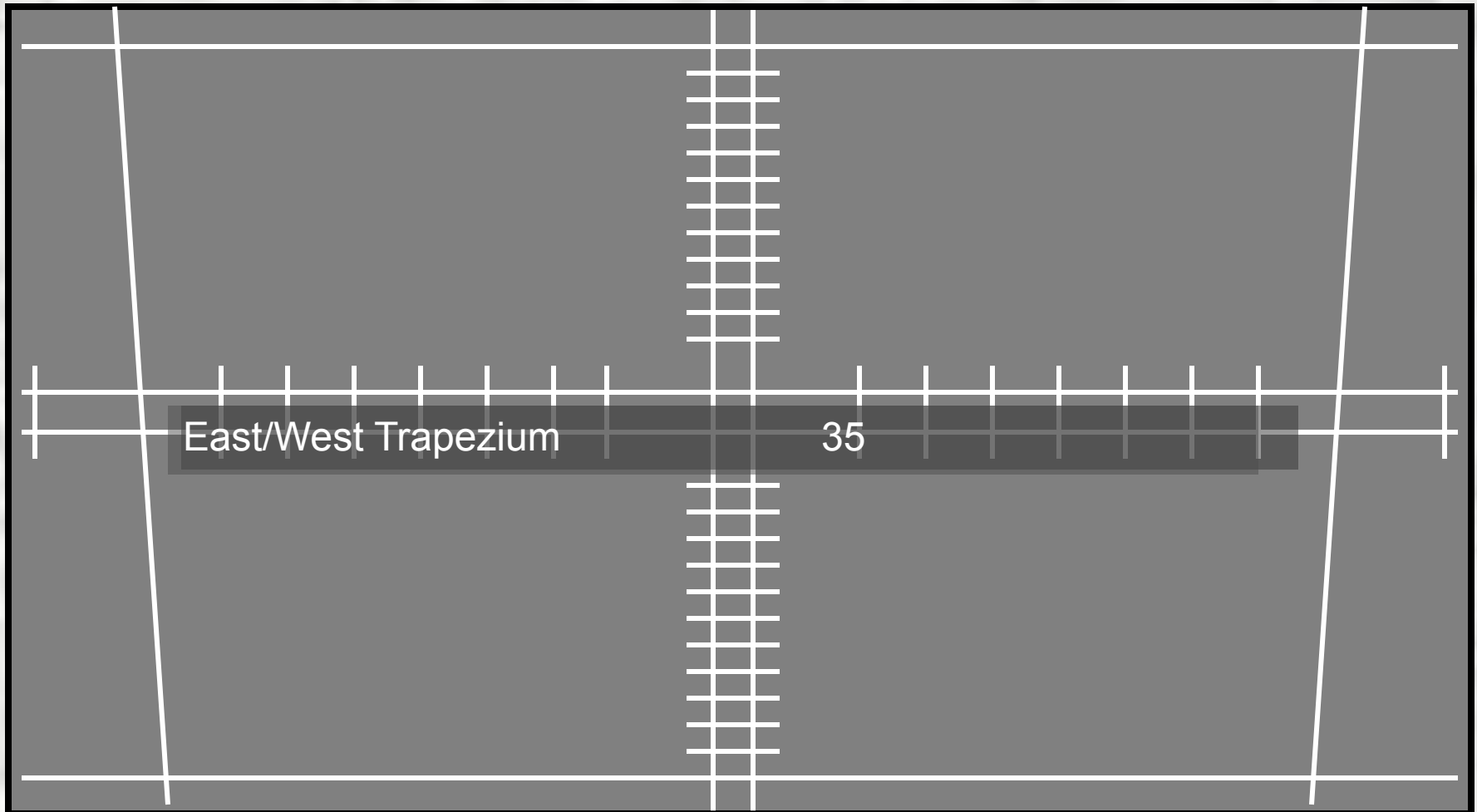
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

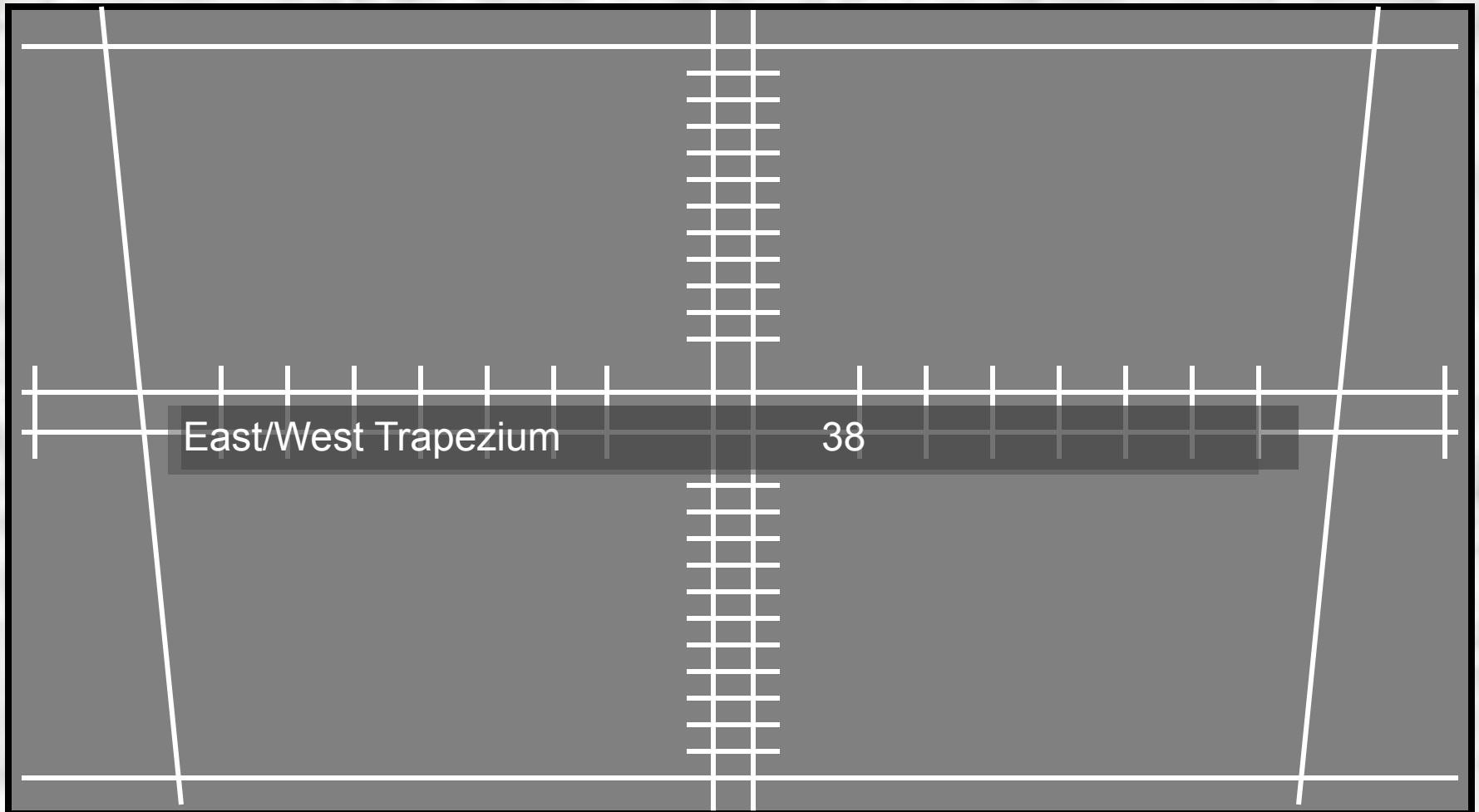
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

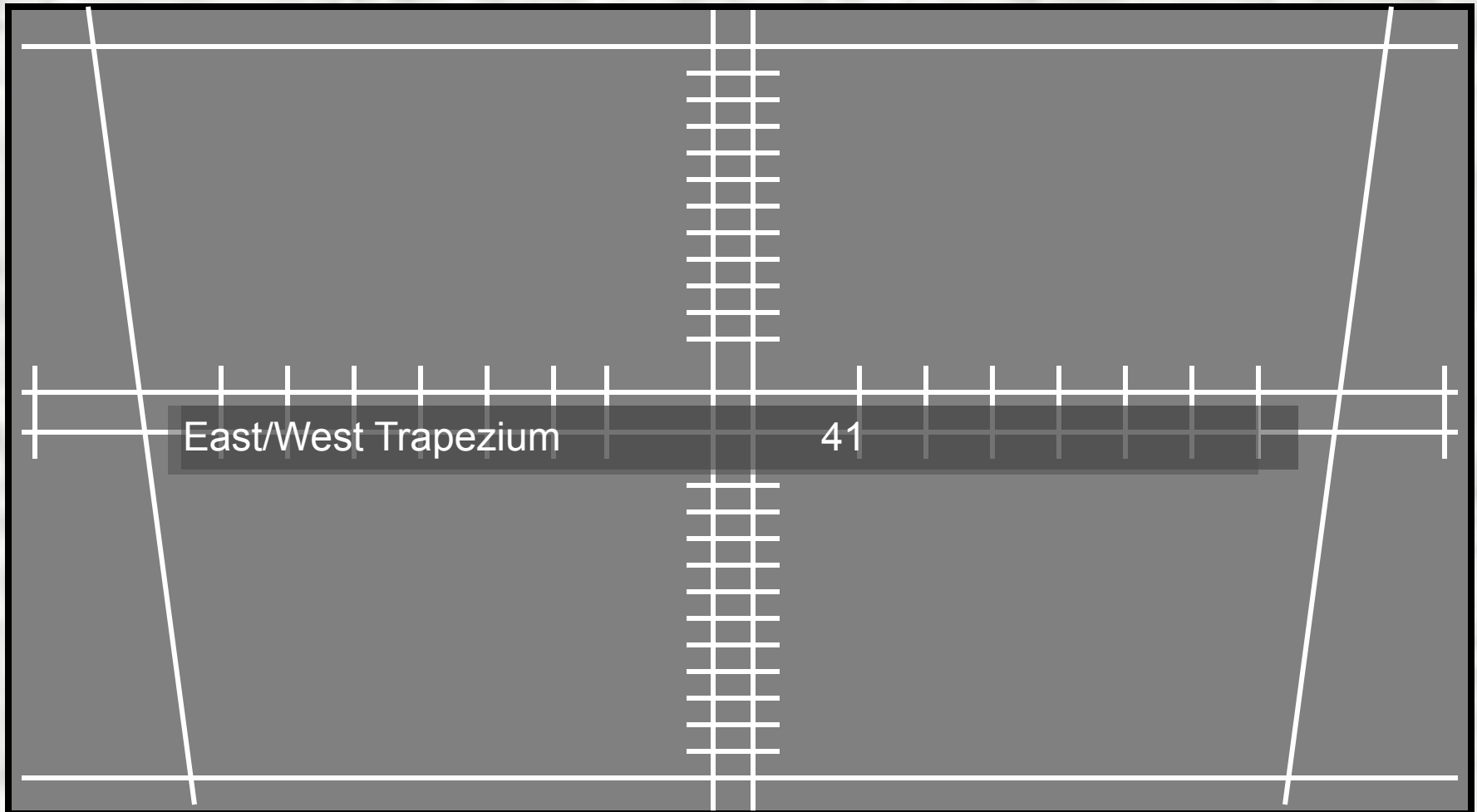
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

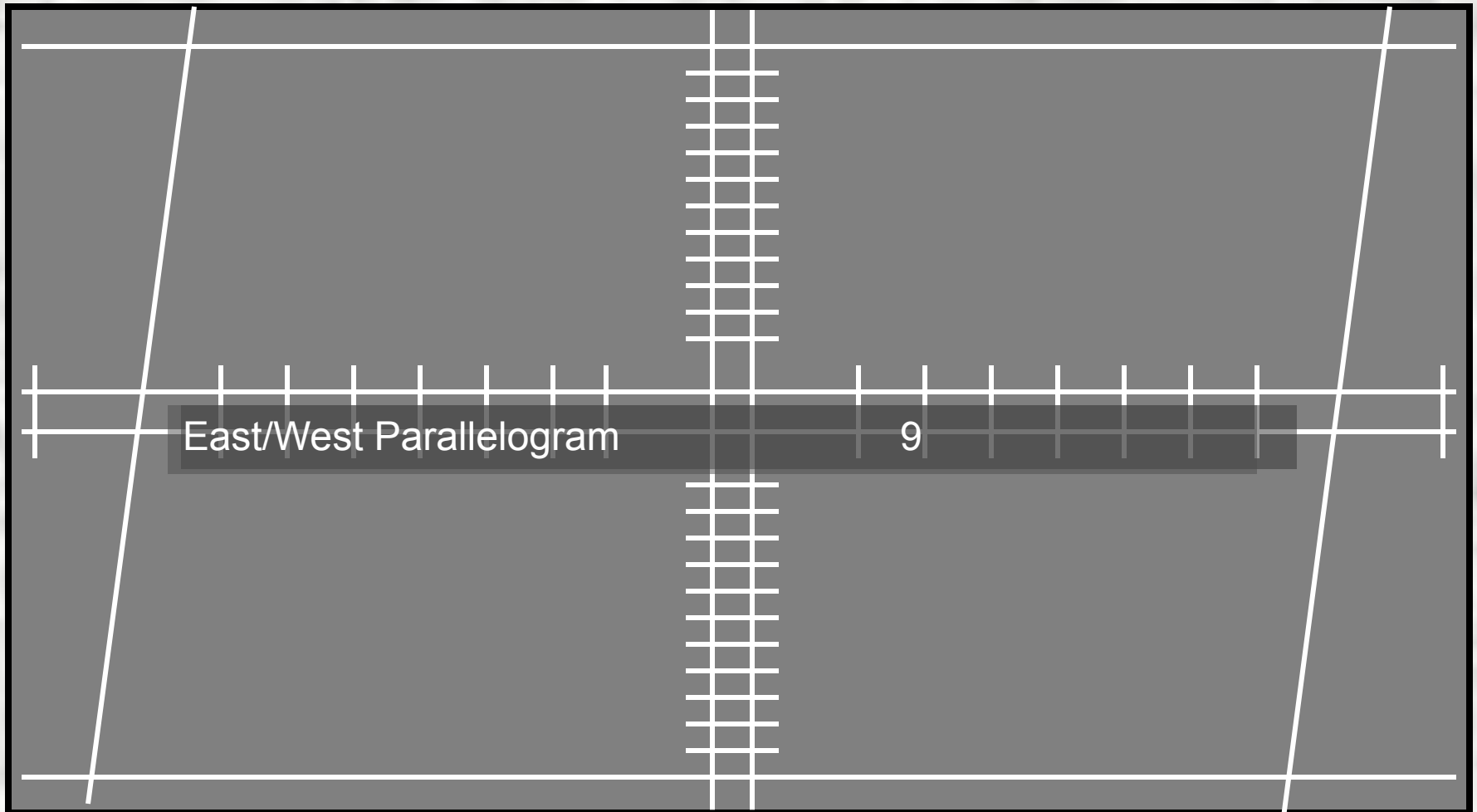
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

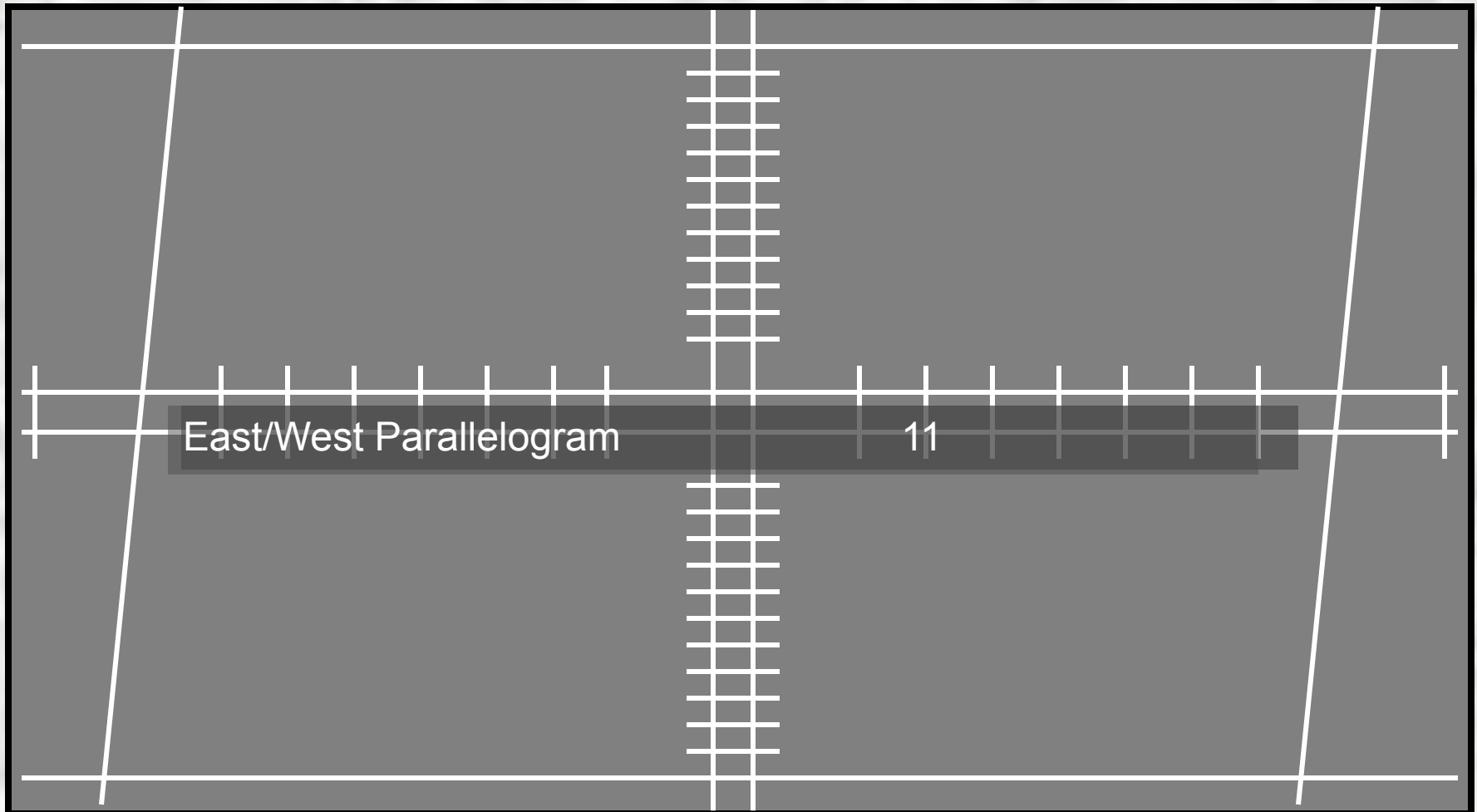
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

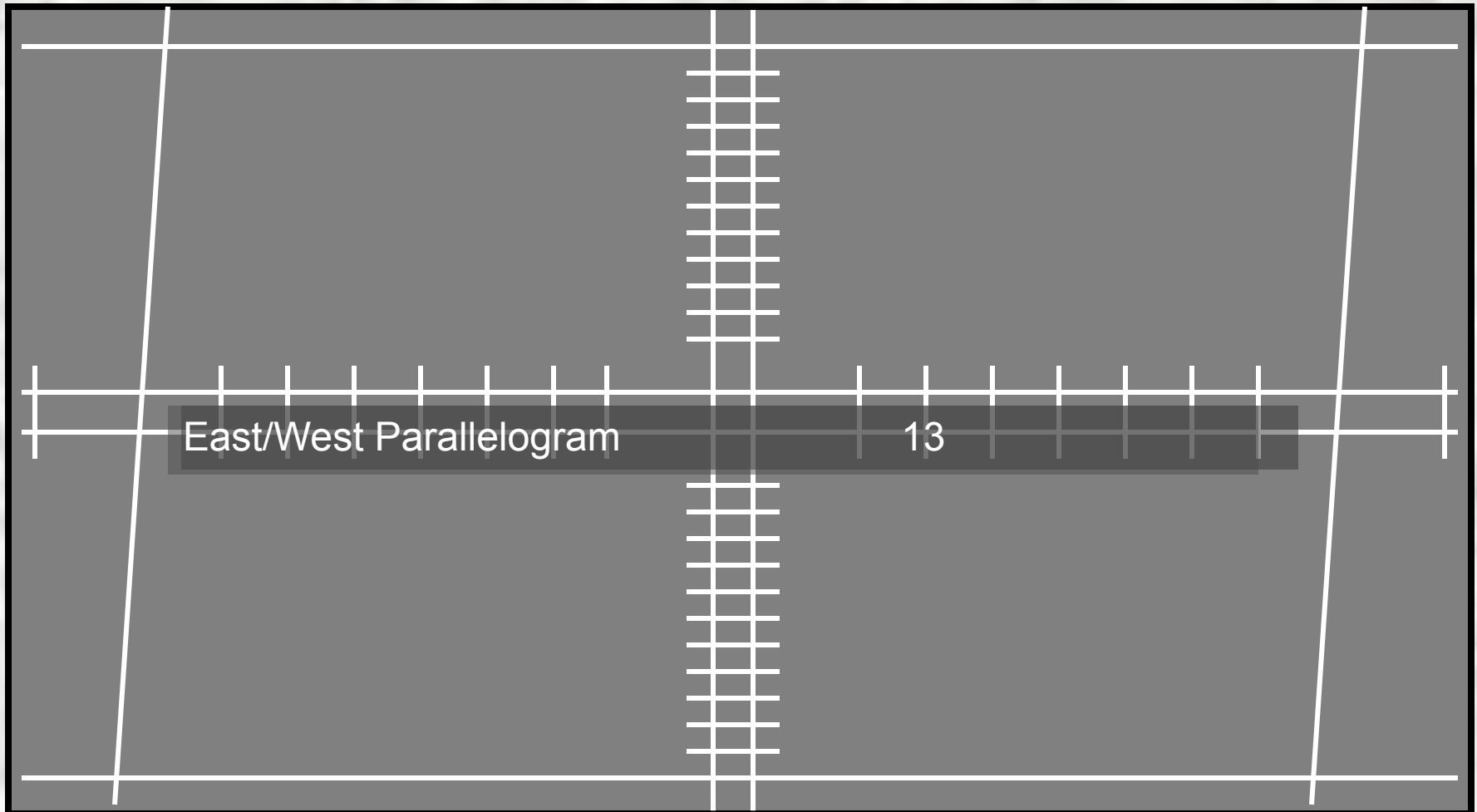
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

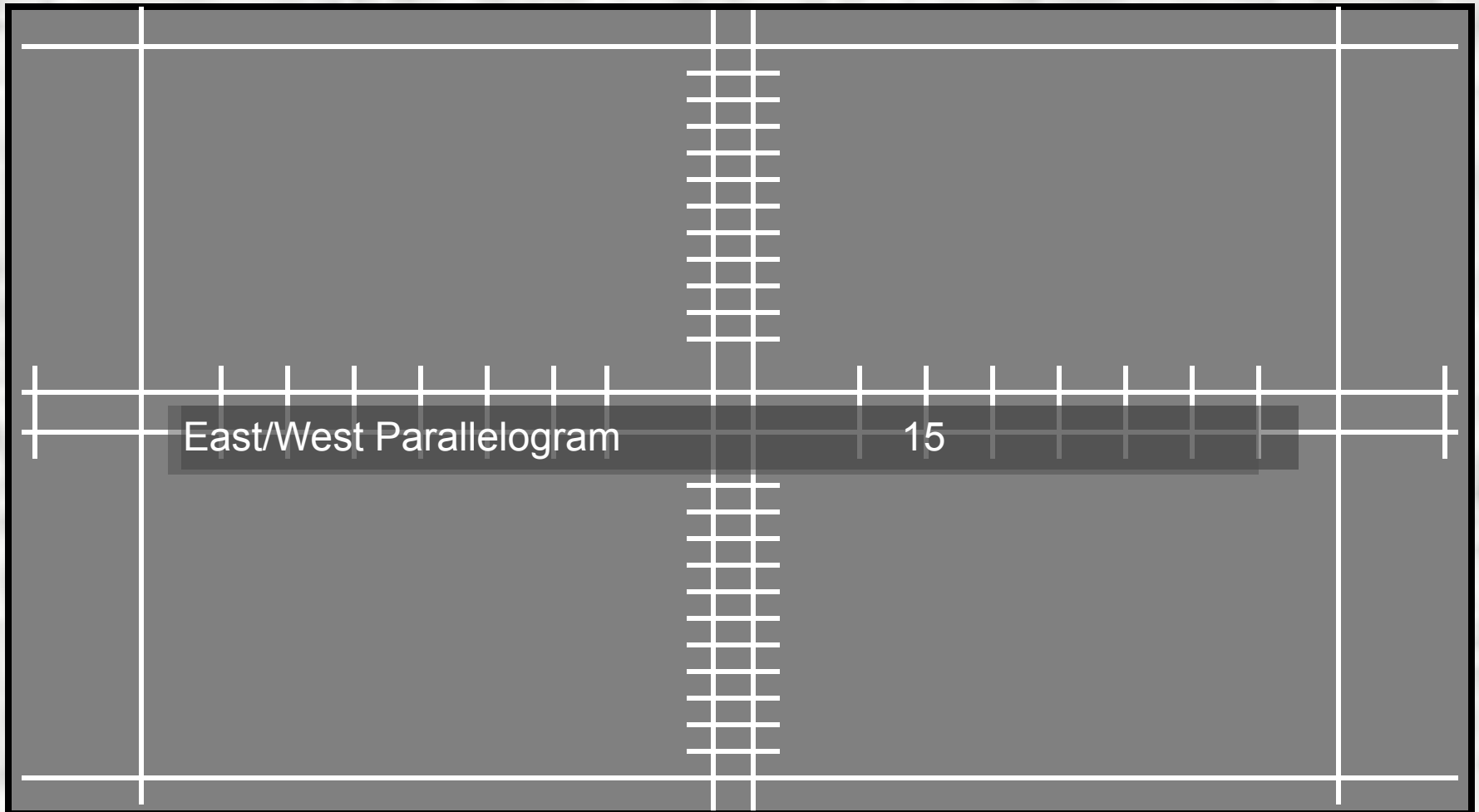
Menu



EM2E Service Alignment Menu

The *Normal Geometry Adjustment Menu*.

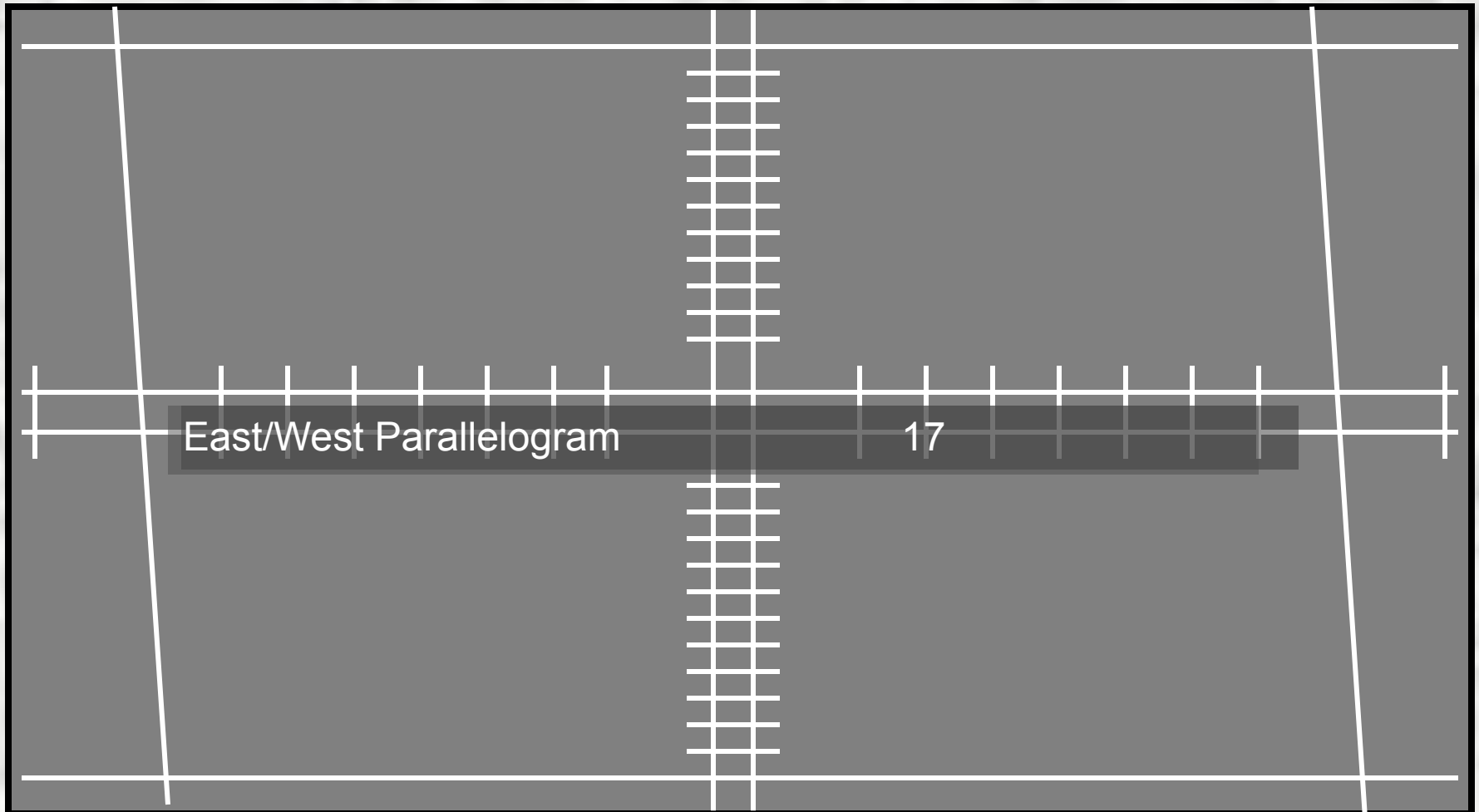
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

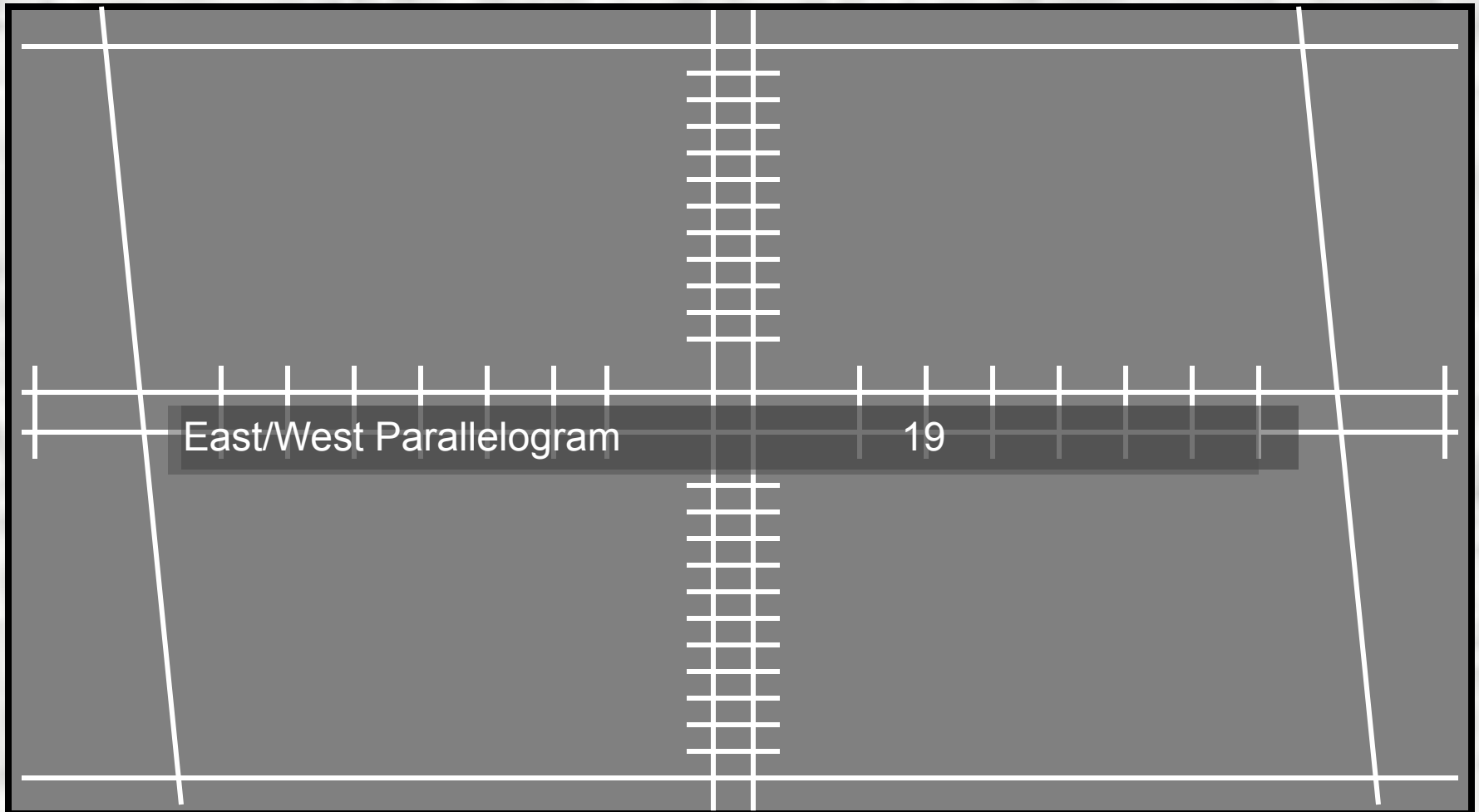
Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

Menu



EM2E Service Alignment Menu

The *Normal Geometry* Adjustment Menu.

Menu

