DESIGNING FOR BROADCAST & FILM

FULLY-AUTOMATED 3D RIG SYSTEM

Bi2VISION
Bionics & Binocular Vision

Key Benefits

Full Automatic

The rig dynamically manages S3D settings, including automating interaxial and convergence. As the operator zooms and pans, the rig system controller automatically determines and continuously maintains the optimal S3D settings with fully-automated, real-time corrections over 6-axes.

Low Cost

The fully-automated 3D camera rig provides the means for effective 3D video production without manual adjustment and greatly expanding the 2D camera crew size.

Easiness

Camera operator and director can operate simply and easily various camera movements (zoom/pan) for creative 3D effects.

High Quality

The real-time corrections against optical misalignments keep high quality live 3D images constantly without the image degradation and delay.

Comfort

During zoom operations, the interaxial distance will change to keep the best position for 3D effect. The standard vergence can create the comfortable 3D vision for human eye.

Widely Using

The S3D rig significantly simplifies the 3D production process and provides dynamic 3D shooting from short to longer distance ranges with beam-splitter (P4) and parallel type (P3).

*Product specifications described are subject to change without notice.

Fully-Automated Control

Optimum Interaxial Distance Control

A best IAD can be calculated automatically to get optimum 3D depth against target and satisfy 3D viewing comfort concurrently. The camera operator keeps his familiar controls, while the system dynamically controls IAD and convergence even during zoom operations.

Standard Vergence Control

Standard Vergence function quickly and automatically configures and manages the setup phase of the shooting process via computer-aided optical-axis alignment.

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Parallel Type

P3 RIG

P3-70

P3-35

Specifications*

General		
Model	P3-RIG3500	P3-RIG7000
Dimensions	W650×H210×D610(mm)	W1000×H210×D640(mm)
Weight	25kg	35kg
INTERAXIAL RANGE	200 ~ 350mm	250 ~ 700mm
Active Range (electromotive)	CONVERGENCE RANGE -2°~ +6° ROLL RANGE -2° ~ + 2° (×2 axis) PITCH RANGE -2° ~ + 2°(×2 axis)	
Camera/Lens Payload	Less than 10kg for each Camera Stage	
Input-Output Terminal		
RIG CONTROL	20pin ×2 ,10pin ×1	

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BinoQ-PSeries

P3 Control Box

Specifications*

General	
Model	P3-CBX1000
Dimensions	W282×H102×D305(mm)
Weight	5kg
Power Consumption	100W
Input-Output	
HD-SDI Input Signals **HD-SDI Video Formats**	BNC × 2 1920 × 1080i (60/59.54/50) 1920 × 1080p (30/29.97/25/24)
REMOTE	RS422, 10pin ×2
DC IN	DC12V, XLR 4pin ×1
LENS CONTROL	10pin ×1
RIG CONTROL	20pin ×2 ,10pin ×1

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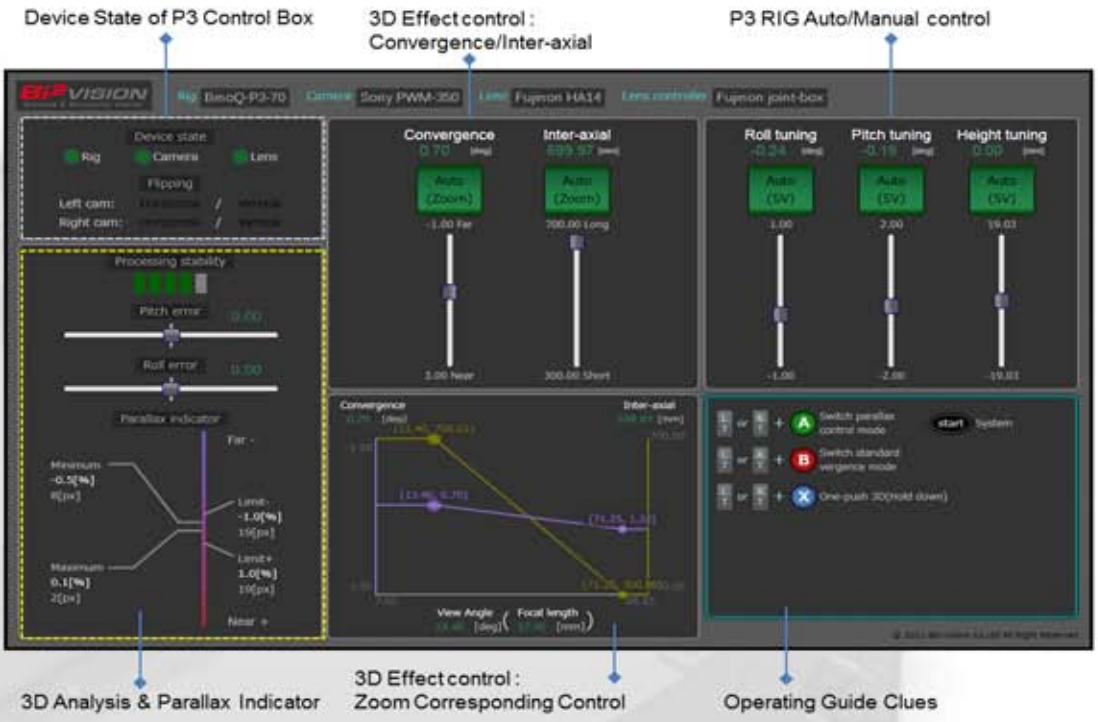
P3 Features

Long Distance Shooting S3D Rig System

- Fully-automated correction against geometric 3D distortions and optical misalignments
- Generating advanced 3D effects by suitable adjustments of Convergence and Inter-axial according to view angle
- Automatic optical lens calibration

P3 Controller Application



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P3 System

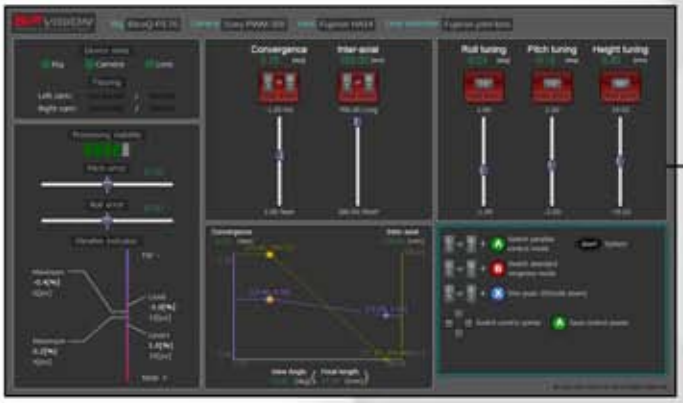
SHOOTING SIDE

BASE SIDE

HD-SDI

Control Cable

P3 Controller Application



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Beamsplitter Type

P4 RIG

Specifications*

General	
Model	P4-RIG1000
Dimensions	W452×H586×D857(mm)
Weight	26kg
Camera/Lens Payload	Less than 6kg for each Camera Stage
Active Range (electromotive)	INTERAXIAL RANGE -2.5 ~ +102.5mm CONVERGENCE RANGE -0.5°~ +1.5° ROLL RANGE -1.75° ~ + 1.75° PITCH RANGE -2° ~ + 2° HEIGHT RANGE -3 ~ +3mm
Input-Output Terminal	
RIG CONTROL	20pin ×1 ,10pin ×1

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BinoQ-PSeries

P4 Cotrol Box

Specifications*

General	
Model	P4-CBX1000
Dimensions	W282×H102×D305(mm)
Weight	5kg
Power Consumption	100W
Input-Output	
HD-SDI Input Signals **HD-SDI Video Formats**	BNC × 2 1920 × 1080i (60/59.54/50) 1920 × 1080p (30/29.97/25/24)
REMOTE	RS422, 10pin × 1
DC IN	DC12V, XLR 4pin × 1
LENS CONTROL	10pin × 1
RIG CONTROL	20pin × 1 ,10pin × 1

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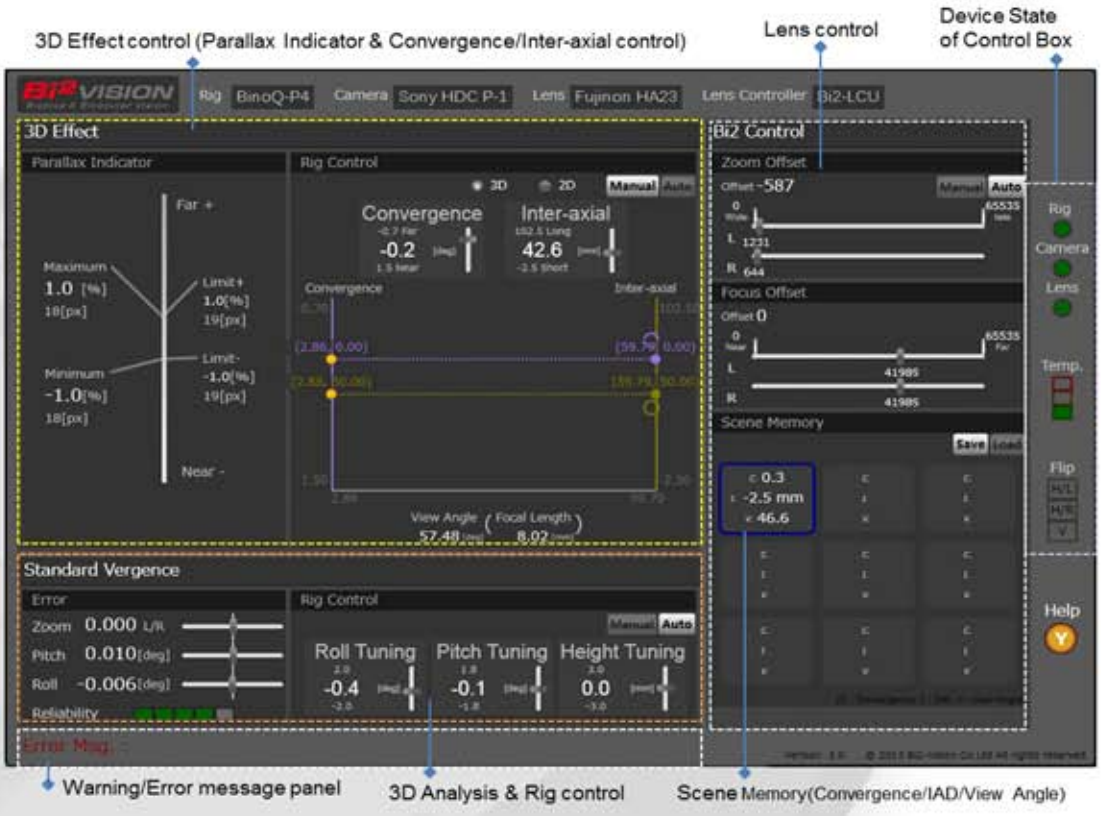
P4 Features

Univeral Shooting S3D Rig System

- Fully-automated correction against geometric 3D distortions and optical misalignments
- Parallax adjustments for comfort 3D viewing and creative works
- Automatic corrections for optical and size distortions between two lens
- Quick scene memory

P4 Controller Application



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P4 System

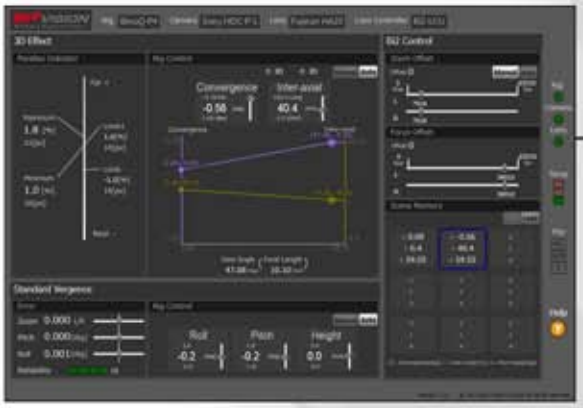
SHOOTING SIDE

HD-SDI

Control Cable

BASE SIDE

P4 Controller Application



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Beamsplitter Type

P5C RIG

Specifications*

General	
Model	P5-RIGCEB5
Dimensions	W360×H290×D650(mm)
Weight	12kg(with cameras)
Active Range (electromotive)	INTERAXIAL RANGE 0 ~ 70mm CONVERGENCE RANGE -1°~ +6° ROLL RANGE -3° ~ + 3° PITCH RANGE -3° ~ + 3°
View Angle	2.92° ~ 54.1°(H)
Focal Length/Zoom Range	4.7~94mm/20×(optical)
M.O.D (W)/M.O.D(W~T)	1cm /100cm
HD-SDI Video Formats	1920×1080i (59.54/50)
Input-Output	
HD-SDI Output Signals	BNC×2
REMOTE	RS422, 10pin×1
DC IN	DC12V, XLR 4pin×1

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P5C System

Monitor & Audio

3D Monitor & Recorder

Microphone

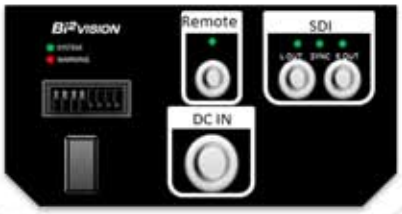
Camera (with zoom lens)

Camera Control Unit

Rig Controller

Rig Inside

Back Panel



Rig Control Panel

Camera Controller

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Beamsplitter Type

P5S RIG

Specifications*

General	
Model	P5-RIGSEB5
Dimensions	W350×H362×D655(mm)
Weight	14kg(with cameras)
Consumption	80W
Camera/Lens Payload	Less than 2.5kg for each Camera Stage
Active Range (electromotive)	INTERAXIAL RANGE 0 ~ 70mm CONVERGENCE RANGE -1°~ +6° ROLL RANGE -3° ~ + 3° PITCH RANGE -3° ~ + 3°
Lens Size	Less than D54×L153(mm)
Lens View Angle	Less than 54.1°(H)
HD-SDI Video Formats	1920×1080i (60/59.54/50) 1920×1080p (30/29.97/25/24)
Input-Output	
HD-SDI Output Signals	BNC×2
REMOTE	RS422, 10pin×1
DC IN	DC12V, XLR 4pin×1

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P5S System

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CREDITS

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