

**DSP Platform Software Operation Environment**

CPU	3.0GHz Pentium 4 or equivalent processor or higher 2.0GHz Core2Duo or equivalent processor or higher
OS	Microsoft® Windows® XP Professional SP3 (32bit) Microsoft® Windows® Vista Business SP2 (32bit) *1 Microsoft® Windows® 7 Professional SP1 (32bit) Microsoft® Windows® 7 Professional SP1 (64bit) Microsoft® Windows® 8.1 Professional (64bit) *1
RAM	1 GB or higher
Hard disk capacity	500MB or more of spare space
Display	1024x768 resolution or higher, 16 bit high color or above
Related software	Microsoft®.NET framework 2.0 SP2 or any version embedded with that framework
Software protection	USB dongle *2

\*1 Only for VirtualDSPConsole Designer, Runtime  
\*2 Only for VirtualDSPConsole Designer, VirtualDSPTesting

●Scope of application

A&D's DSP devices are designed and produced as general accessories for use in standard industries. Use in industrial facilities such as nuclear power generation plants or other electricity generation plants with a potentially significant public impact, or in circumstances where special quality assurances are required, is considered beyond the scope of their application. However, use even in such circumstances may be possible when the customer accepts limits to their use and does not demand special assurances of quality. Further, if use of the device is being considered for situations where a high level of reliability is demanded for safety purposes, as part of a control system, or where use is anticipated to have a substantial influence on the safety of people or property, such as in aviation, railway or other transportation industries, the medical sector, in combustion devices, leisure activity devices or safety devices, A&D requests our customers consult with a representative of our company and take receipt of any required specification manuals.



MATLAB/Simulink/Stateflow are registered trademarks of the MathWorks, Inc. VirtualDSPConsole is a registered trademark of A&D Company, Limited.



**Safety Warning!**

●For proper use, read the instruction manuals carefully before use.

**AND** ...Clearly a Better Value  
A&D Company, Limited  
3-23-14 Higashi Ikebukuro Toshima Ku, Tokyo 170-0013 JAPAN  
Telephone:[81](3) 5391-6132 Fax:[81](3) 5391-6148  
http://www.aandd.jp

A&D Technology, Inc.  
4622 Runway Blvd. Ann Arbor, MI 48108 U.S.A  
Telephone:[1](734) 973-1111 Fax:[1](734) 973-1103  
http://www.aanddtech.com

A&D Europe GmbH  
Im Leuschnerpark 4, D-64347 Griesheim,  
GERMANY  
Telephone:[49](6155) 605 250 Fax:[49](6155) 605 100

A&D Technology Trading (Shanghai) Co., Ltd.  
21A, Majesty Building, No.138 Pudong Avenue,  
Pudong New Area, Shanghai, 200120, CHINA  
Telephone:[86](21) 3393-2340 Fax:[86](21) 3393-2347

A&D Europe GmbH UK Branch  
Unit 24/26 Blacklands Way Abingdon Business Park,  
Abingdon, Oxon OX14 1DY UNITED KINGDOM  
Telephone:[44](1235) 550420 Fax:[44](1235) 550485

A&D Australasia Pty Ltd.  
32 Dew Street, Thebarton, South Australia 5031 AUSTRALIA  
Telephone:[61](8) 8301-8100 Fax:[61](8) 8352-7409

A&D KOREA Limited  
Manhattan Bldg. 8F, 38-2 Yoido-dong, Youngdeungpo-gu, Seoul, KOREA  
Telephone:[82](2) 780-4101 Fax:[82](2) 782-4280

●Appearances and/or specifications subject to improvement without notice.  
●Contents of this catalog last updated July 2014.

\*Platform Software-ADCC-01-BP1-14XXX

# DSP Platform Software

Platform software designed for running a model on DSP



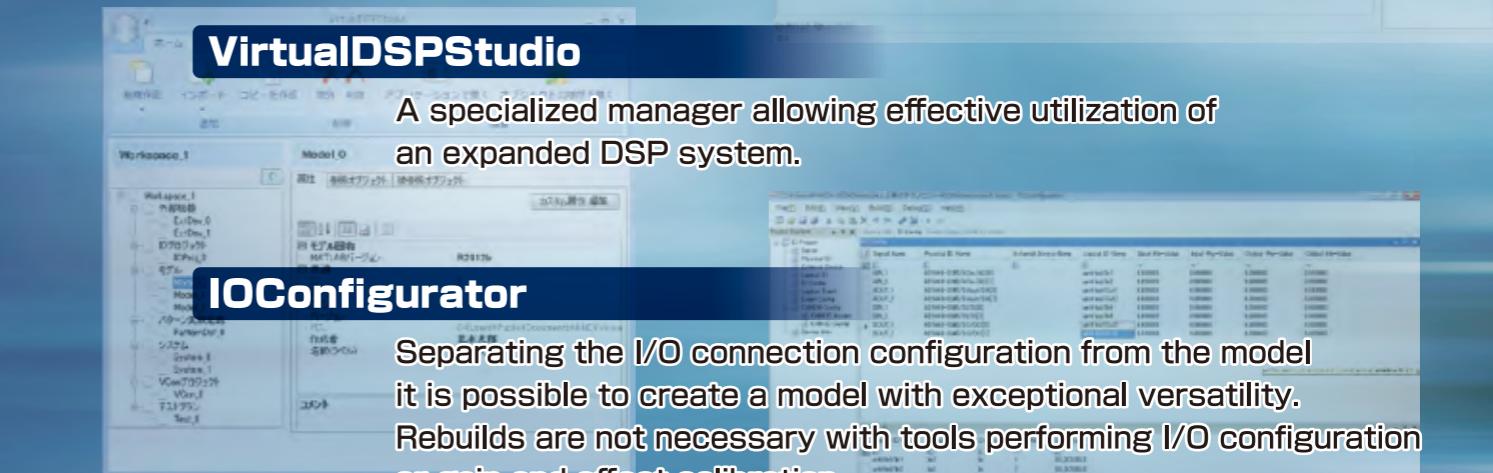
**VirtualDSPConsole Designer**

**VirtualDSPConsole Runtime**

A GUI application can be easily created as a Windows application or console panel for the DSP system.

**VirtualDSPTesting**

Functions as an automatic test environment for the DSP system with continuous testing possible, allowing your system to work through the night and weekends.

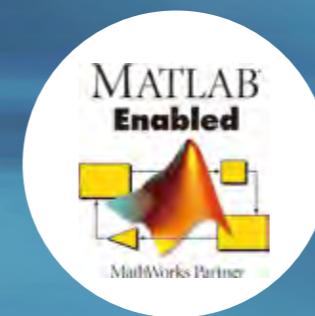


**VirtualDSPStudio**

A specialized manager allowing effective utilization of an expanded DSP system.

**I/OConfigurator**

Separating the I/O connection configuration from the model it is possible to create a model with exceptional versatility. Rebuilds are not necessary with tools performing I/O configuration or gain and offset calibration.



**AND** ...Clearly a Better Value  
A&D Company, Limited  
http://www.aandd.jp

## DSP Platform Software

For distributed processing of models

- Run various commercially available software
- Block set for MATLAB/Simulink

For running a physical model

### Development environment for model execution

For creating a simulation model for real-time processing

- Separation of model and dependencies
- To avoid a model rebuild solely due to a change in the IO processing unit

### IOConfigurator

For using several DSP systems simultaneously

### VirtualDSPConsole Designer

GUI

- Screen creation by drag and drop
- A Windows application built by yourself

For creating a screen

For running as an application

### VirtualDSPConsole Runtime

- Application as actual testing equipment

For use in a simulation or with various measurement controls

Support for our customers' development process

For switching models or sequences  
Freedom to switch between managed models, screens, sequences, etc.

For integrating model, screen and sequence

Control

### VirtualDSPStudio

Centralized control

Test performed with selected combination

Select from list				
Model A	I/O configuration A	DSP target A	GUI A	Sequence A
Model B	I/O configuration B	DSP target B	GUI B	Sequence B
Model C	I/O configuration C	DSP target C	GUI C	Sequence C

For sequential operation in real-time  
It is now possible to perform sequence processing in synchronization with the model cycle in the DSP platform.

For performing automation testing  
Parameters can be configured automatically without the need for entry by the user.

### VirtualDSPTesting

- Set DSP system for sequential automation testing and output results

Turn the knob one step... then move the slider...

From manual processing → To automatic recording → For use in sequence

For recording and playback of parameter configuration operations  
Automatic operation of recording and playback of parameter configuration operations on VirtualDSPConsole Runtime