

# Crystal Ball, @RISK, ModelRisk의 상세비교

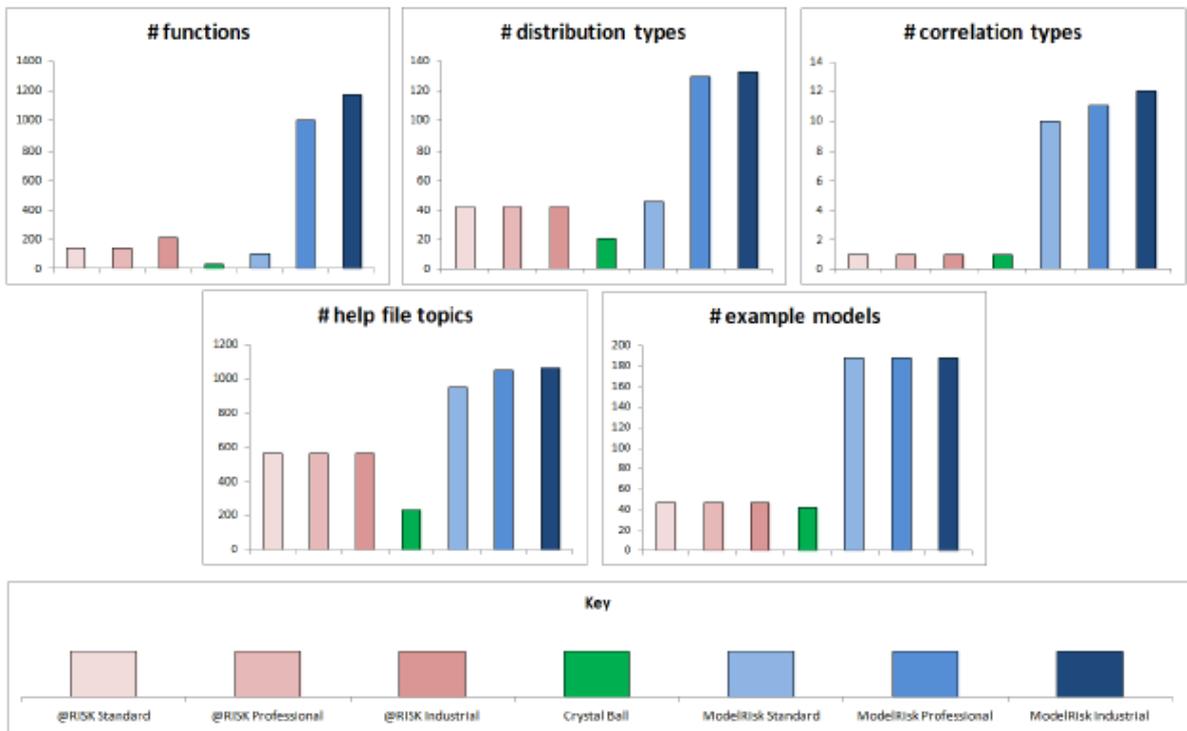
'Detailed comparison of ModelRisk, @RISK and Crystal Ball'의 내용에서 발췌한 것임

## 비교 결과 요약

최고의 제품을 선택하기 위해서는 다음과 같은 중요한 요소들을 살펴보아야 합니다:

1. 가성비 (비슷한 기능을 가진 제품 중 최저가) (최우수): ModelRisk
2. 확률분포수 (최대): ModelRisk
3. 상관관계를 선택할 수 있는 기능 (제공): ModelRisk
4. Excel 프로토콜에 밀접한 정도 (최고): ModelRisk
5. 결과 공유 용이성 (최고): ModelRisk
6. 기술적 도구들의 범위 (최대): ModelRisk
7. 보험 및 재무 모델링 기능 (제공): ModelRisk
8. 결과 도표화 기능 (최대): ModelRisk, @RISK
9. Excel에서 Microsoft Project연결 (제공): @RISK
10. 영어 이외의 다른 언어 (제공): @RISK, Crystal Ball

## 기능



Source: based on Wikipedia article

## 기술적 사양

| Technical specification       | @RISK Standard | @RISK Professional | @RISK Industrial | Crystal Ball | Crystal Ball Suite | ModelRisk Standard | ModelRisk Professional | ModelRisk Industrial |
|-------------------------------|----------------|--------------------|------------------|--------------|--------------------|--------------------|------------------------|----------------------|
| Distribution fitting          | No             | Yes                | Yes              | Yes          | Yes                | No                 | Yes                    | Yes                  |
| Correlation fitting           | No             | No                 | No               | No           | No                 | No                 | Yes                    | Yes                  |
| Time series fitting           | No             | No                 | Yes              | Yes          | Yes                | No                 | Yes                    | Yes                  |
| Optimizer included            | No             | No                 | Yes              | No           | Yes                | No                 | Yes                    | Yes                  |
| Database connectivity         | No             | No                 | No               | No           | No                 | No                 | No                     | Yes                  |
| VBA calls to functions        | No             | Yes                | Yes              | Yes          | Yes                | Yes                | Yes                    | Yes                  |
| C++ calls to functions        | No             | Yes                | Yes              | No           | No                 | Yes                | Yes                    | Yes                  |
| Six sigma supported           | Yes            | Yes                | Yes              | Yes          | Yes                | No                 | No                     | Yes                  |
| UDF error analysis            | No             | No                 | No               | No           | No                 | Yes                | Yes                    | Yes                  |
| Extreme value modeling        | No             | No                 | No               | No           | No                 | No                 | Yes                    | Yes                  |
| Expert elicitation tools      | Yes            | Yes                | Yes              | No           | No                 | No                 | Yes                    | Yes                  |
| Data previsualizer            | No             | No                 | No               | No           | No                 | No                 | Yes                    | Yes                  |
| ODE and numerical integration | No             | No                 | No               | No           | No                 | No                 | No                     | Yes                  |
| Assumption library            | No             | Yes                | Yes              | No           | No                 | No                 | No                     | Yes                  |
| Converters for                | CB             | CB                 | CB               | No           | No                 | CB, @RISK          | CB, @RISK              | CB, @RISK            |

Source: based on Wikipedia article

## 시뮬레이션 컨트롤

| Simulation controls            | @RISK Standard | @RISK Professional | @RISK Industrial | Crystal Ball | ModelRisk Standard | ModelRisk Professional | ModelRisk Industrial |
|--------------------------------|----------------|--------------------|------------------|--------------|--------------------|------------------------|----------------------|
| Lock / unlock random variables | Yes            | Yes                | Yes              | No           | Yes                | Yes                    | Yes                  |
| Apply specific sample in model | Yes            | Yes                | Yes              | No           | Yes                | Yes                    | Yes                  |
| Random number generator        | Several        | Several            | Several          | MCG          | Twister            | Twister                | Twister              |
| Spreadsheet interpreter        | No             | No                 | No               | Yes          | No                 | No                     | No                   |
| Sampling method                | MC, LHS        | MC, LHS            | MC, LHS          | MC, LHS      | MC                 | MC                     | MC                   |

Source: based on Wikipedia article

## 결과 보고

| Reporting results  | @RISK Standard | @RISK Professional | @RISK Industrial | Crystal Ball | ModelRisk Standard | ModelRisk Professional | ModelRisk Industrial |
|--------------------|----------------|--------------------|------------------|--------------|--------------------|------------------------|----------------------|
| Free report viewer | No             | No                 | No               | No           | Yes                | Yes                    | Yes                  |
| Spider             | Yes            | Yes                | Yes              | No           | Yes                | Yes                    | Yes                  |
| Box                | Yes            | Yes                | Yes              | No           | Yes                | Yes                    | Yes                  |

## 도움말 파일, 기술지원 및 훈련

| Help file, support and training | @RISK Standard             | @RISK Professional         | @RISK Industrial           | Crystal Ball | ModelRisk Standard | ModelRisk Professional | ModelRisk Industrial |
|---------------------------------|----------------------------|----------------------------|----------------------------|--------------|--------------------|------------------------|----------------------|
| UDFs linked to help file        | Yes                        | Yes                        | Yes                        | No           | Yes                | Yes                    | Yes                  |
| Online videos                   | Yes                        | Yes                        | Yes                        | No           | Yes                | Yes                    | Yes                  |
| Online training                 | Yes                        | Yes                        | Yes                        | No           | Yes                | Yes                    | Yes                  |
| Onsite training                 | Yes                        | Yes                        | Yes                        | No           | Yes                | Yes                    | Yes                  |
| Language versions               | ZH, EN, FR, DE, JA, PT, ES | ZH, EN, FR, DE, JA, PT, ES | ZH, EN, FR, DE, JA, PT, ES | EN, JA, ES   | EN                 | EN                     | EN                   |

## 가격

| Price comparison                     | ModelRisk Standard | @RISK Standard | Crystal Ball | @RISK Professional | ModelRisk Professional | @RISK Industrial | ModelRisk Industrial | Crystal Ball Suite |
|--------------------------------------|--------------------|----------------|--------------|--------------------|------------------------|------------------|----------------------|--------------------|
| Perpetual license + 1st year support | \$895              | \$1,195        | \$1,213      | \$1,595            | \$1,645                | \$2,195          | \$2,295              | \$2,433            |
| Cost of additional year's support    | \$161              | ?              | \$218        | ?                  | \$296                  | ?                | \$413                | \$438              |
| # CPUs supported                     | All                | 2              | ?            | 2                  | All                    | All              | All                  | ?                  |
| Single click function view           | Yes                | No             | No           | No                 | Yes                    | No               | Yes                  | No                 |
| Distribution fitting                 | No                 | No             | Yes          | Yes                | Yes                    | Yes              | Yes                  | Yes                |
| Links to Microsoft Project           | No                 | No             | No           | Yes                | No                     | Yes              | No                   | No                 |
| Aggregate modeling                   | No                 | No             | No           | Yes                | Yes                    | Yes              | Yes                  | No                 |
| Markov Chain simulation              | No                 | No             | No           | No                 | Yes                    | No               | Yes                  | No                 |
| Multivariate time series             | No                 | No             | No           | No                 | Yes                    | No               | Yes                  | No                 |
| Dynamic sorting                      | No                 | No             | No           | No                 | Yes                    | No               | Yes                  | No                 |
| Optimizer                            | No                 | No             | No           | No                 | Yes                    | Yes              | Yes                  | Yes                |
| Stochastic data sharing              | No                 | No             | No           | No                 | No                     | No               | Yes                  | No                 |
| Specialist financial tools           | No                 | No             | No           | No                 | No                     | No               | Yes                  | No                 |
| Specialist insurance tools           | No                 | No             | No           | No                 | No                     | No               | Yes                  | No                 |
| Bayesian model averaging             | No                 | No             | No           | No                 | No                     | No               | Yes                  | No                 |

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